Dos Equis 12 Federal Com 3H

Remediation Work Plan

Release Date: 8/29/2020
API# 30-025-40792
Incident# nRM2025348983
October 1, 2020

Purpose:

To complete the remediation of the well pad are due to crude oil spill (8/29/2020). The remediation will be completed per the following. The OCD and BLM guidance, XEC protocol and agency approval.

Phase II Scope of Work

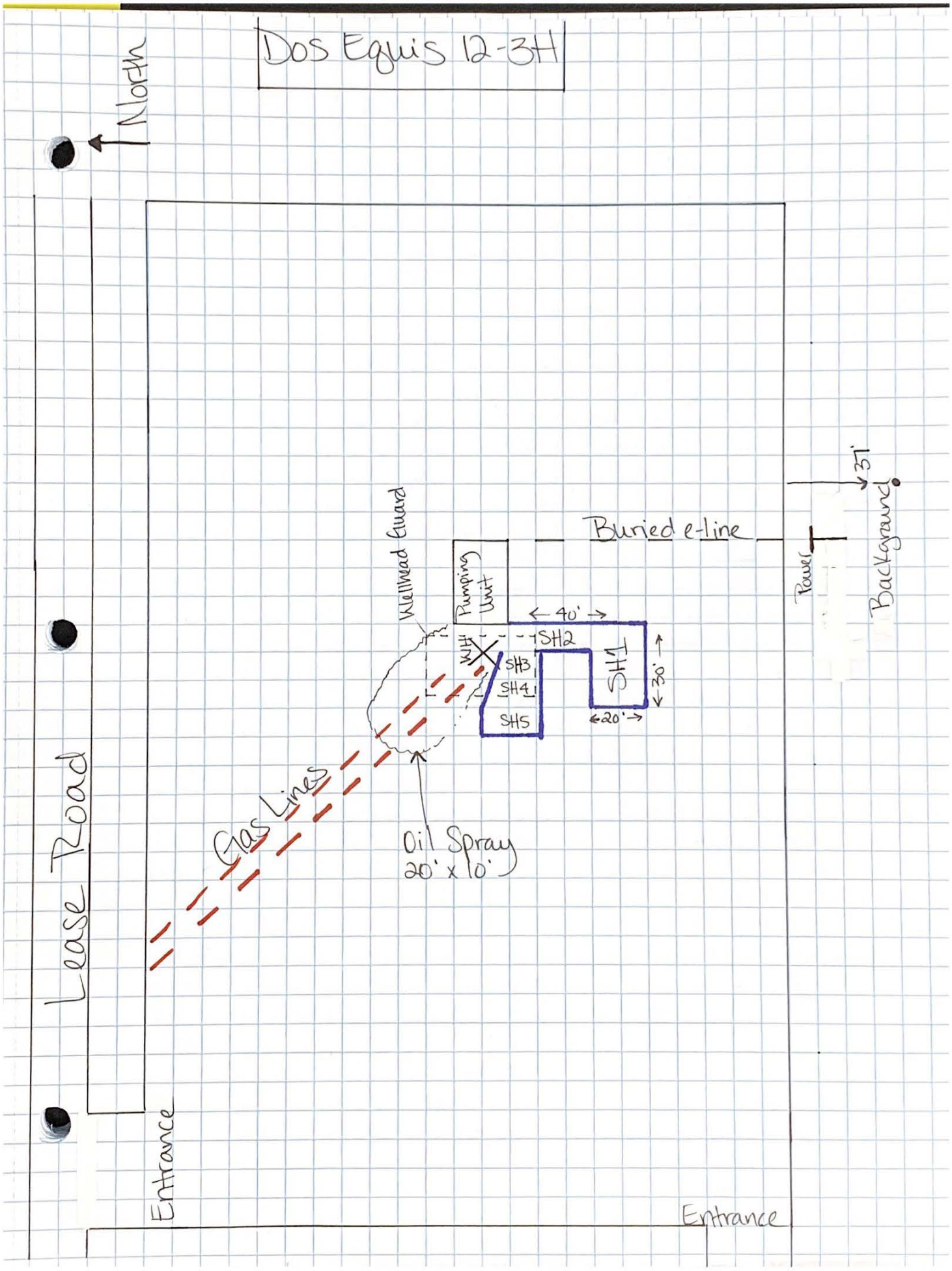
1. Complete the soil sampling of the pad area to determine the horizontal and vertical limits of the crude oil spill.
2. Develop a plat of the impacted soils from the lab data and develop the remediation plan.
3. XEC will submit the scope of work for remediation to Artesia OCD offices for approval.

Phase III Scope of Work

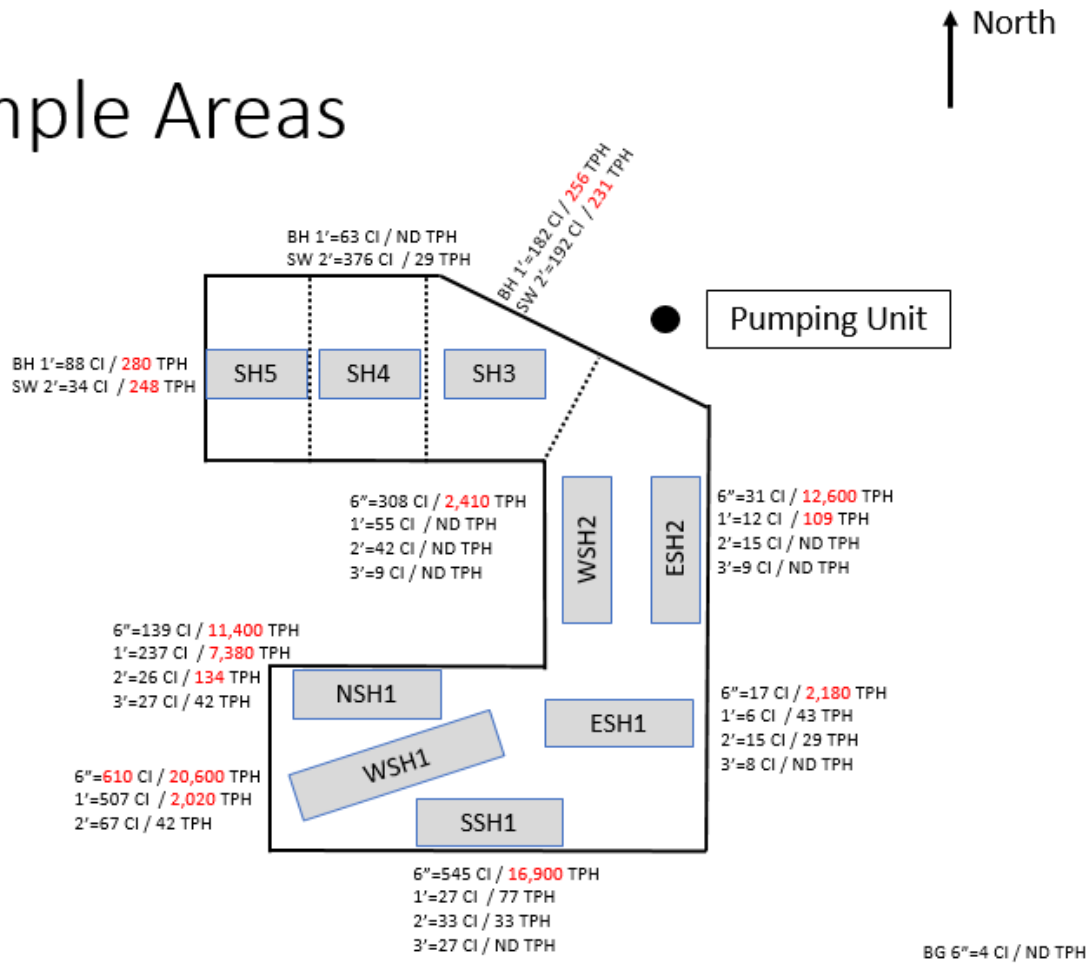
1. XEC will request bids from an XEC approved contractor to remove the impacted soils on the well pad site. Note – The area to excavate will be per the soil sample (lab data) and will be at a depth of 2.0 and 3.0 ft. to ensure adequate removal of all the impacted soil.
2. XEC will notify the OCD Artesia office and BLM Carlsbad office of the scheduled date for the field work.
3. XEC will complete an excavation survey prior to commencing the field work.
4. The excavated soil will be transported to an approved New Mexico E&P waste treatment/disposal site for proper handling and disposal or treatment.
5. The on-site remediation technician will take random soil samples and test on-site to ensure the excavation depth is acceptable.
6. Soil samples will be taken of the excavation bottom and side walls per the OCD guidance rule 19.15.29.12 and sent to an XEC approved lab.
7. Upon confirmation of the clean bottom and side-walls, the excavation will be back-filled with clean caliche material.
8. Refer to Attachment B for reference to the depth of groundwater.
9. A completed C – 141 form, summary plat and soil analysis will be submitted to the OCD upon completion of the field work.

ATTACHMENT A

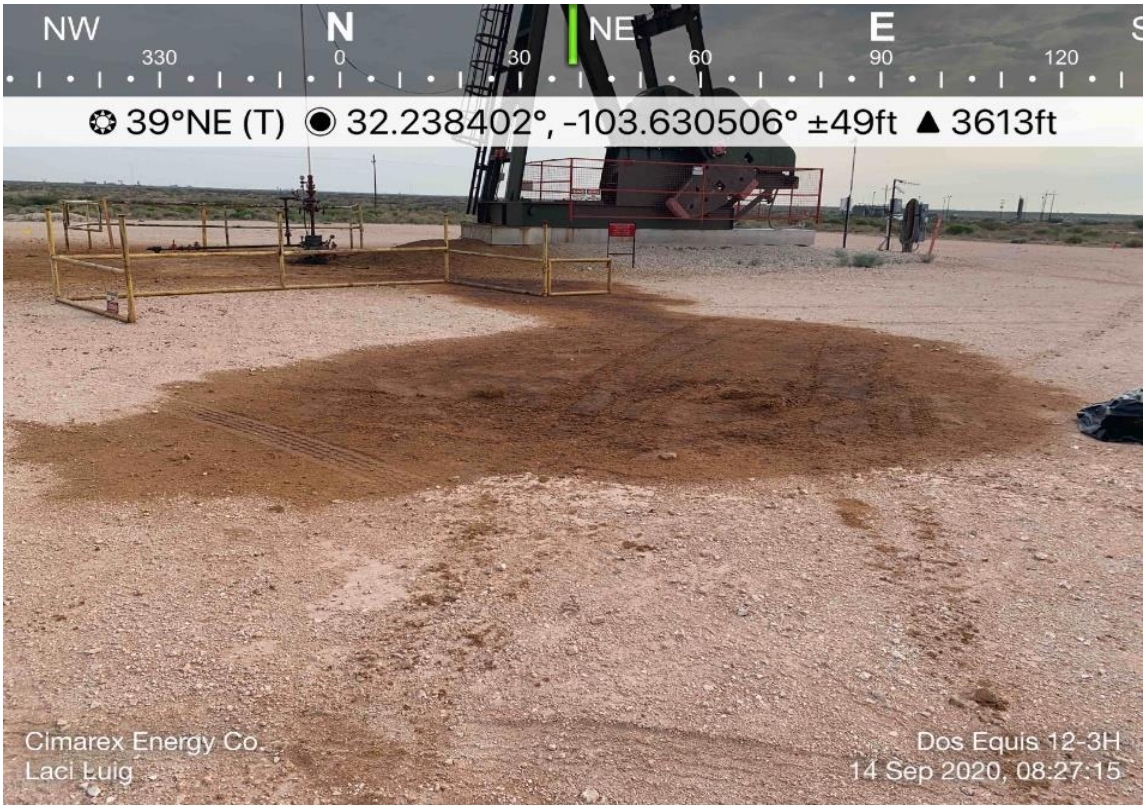
Site Diagram


Dos Equis 12-3H
North
Lease Road
Entrance
Entrance
Gas Lines
Oil Spray
20' x 10'
Wellhead Guard
WH
Pumping Unit
Buried e-line
Power
37'
Backyard
40'
SH1
SH2
SH3
SH4
SH5
30'
20'

Sample Areas




DOS EQUIS 12 FEDERAL COM 3H - Charlie Fisher
© 2020 Google
Google Earth
Imagery Date: 11/2/2017 lat 32.238567° lon -103.630410° elev 3612 ft eye alt 4111 ft


NW N NE E
330 0 30 60 90 120
39°NE (T) 32.238402°, -103.630506° ±49ft 3613ft
Cimarex Energy Co.
Laci Luig
Dos Equis 12-3H
14 Sep 2020, 08:27:15

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

PBELAB

Analytical Report

Prepared for:

Gloria Garza

Cimarex

600 N. Marinfeld, Ste. 600

Midland, TX 79701

Project: Dos Equis 12 Fed Com 3H

Project Number: [none]

Location: New Mexico

Lab Order Number: 0I15001

NELAP ACCREDITED TNI LABORATORY

NELAP/TCEQ # T104704516-17-8

Report Date: 09/16/20

Cimarex
600 N. Marinfeld, Ste. 600
Midland TX, 79701

Project: Dos Equis 12 Fed Com 3H
Project Number: [none]
Project Manager: Gloria Garza

Fax: (432) 571-7832

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ESW SH1 0-6"	0I15001-01	Soil	09/14/20 12:39	09-15-2020 08:03
ESW SH1 6"-1'	0I15001-02	Soil	09/14/20 12:42	09-15-2020 08:03
ESW SH1 1'-2'	0I15001-03	Soil	09/14/20 12:44	09-15-2020 08:03
ESW SH1 2'-3'	0I15001-04	Soil	09/14/20 12:55	09-15-2020 08:03
SSW SH1 0-6"	0I15001-05	Soil	09/14/20 13:01	09-15-2020 08:03
SSW SH1 6"-1'	0I15001-06	Soil	09/14/20 13:03	09-15-2020 08:03
SSW SH1 1'-2'	0I15001-07	Soil	09/14/20 13:04	09-15-2020 08:03
SSW SH1 2'-3'	0I15001-08	Soil	09/14/20 13:05	09-15-2020 08:03
WSW SH1 0-6"	0I15001-09	Soil	09/14/20 13:12	09-15-2020 08:03
WSW SH1 6"-1'	0I15001-10	Soil	09/14/20 13:14	09-15-2020 08:03
WSW SH1 1'-2'	0I15001-11	Soil	09/14/20 13:15	09-15-2020 08:03
NSW SH1 0-6"	0I15001-12	Soil	09/14/20 13:18	09-15-2020 08:03
NSW SH1 6"-1'	0I15001-13	Soil	09/14/20 13:19	09-15-2020 08:03
NSW SH1 1'-2'	0I15001-14	Soil	09/14/20 13:21	09-15-2020 08:03
NSW SH1 2'-3'	0I15001-15	Soil	09/14/20 13:22	09-15-2020 08:03
ESW SH2 0-6"	0I15001-16	Soil	09/14/20 14:24	09-15-2020 08:03
ESW SH2 6"-1'	0I15001-17	Soil	09/14/20 14:26	09-15-2020 08:03
ESW SH2 1'-2'	0I15001-18	Soil	09/14/20 14:27	09-15-2020 08:03
ESW SH2 2'-3'	0I15001-19	Soil	09/14/20 14:29	09-15-2020 08:03
WSW SH2 0-6"	0I15001-20	Soil	09/14/20 14:38	09-15-2020 08:03
WSW SH2 6"-1'	0I15001-21	Soil	09/14/20 14:40	09-15-2020 08:03
WSW SH2 1'-2'	0I15001-22	Soil	09/14/20 14:42	09-15-2020 08:03
WSW SH2 2'-3'	0I15001-23	Soil	09/14/20 14:43	09-15-2020 08:03
BH SH3 0-1'	0I15001-24	Soil	09/14/20 14:54	09-15-2020 08:03
SWSW SH3 2'	0I15001-25	Soil	09/14/20 15:35	09-15-2020 08:03
BH SH4 1'	0I15001-26	Soil	09/14/20 14:57	09-15-2020 08:03
SWSW SH4 2'	0I15001-27	Soil	09/14/20 15:27	09-15-2020 08:03
BH SH5 1'	0I15001-28	Soil	09/14/20 15:03	09-15-2020 08:03
SWSW SH5 2'	0I15001-29	Soil	09/14/20 15:15	09-15-2020 08:03
BG 6"	0I15001-30	Soil	09/14/20 13:52	09-15-2020 08:03

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

ESW SH1 0-6"

0I15001-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**16.8**	1.03	mg/kg dry	1	P0I1504	09/15/20	09/15/20	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**340**	25.8	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C12-C28	**1630**	25.8	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C28-C35	**208**	25.8	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*107 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*108 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**2180**	25.8	mg/kg dry	1	[CALC]	09/15/20	09/15/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

ESW SH1 6''-1'

0I15001-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**6.32**	1.03	mg/kg dry	1	P0I1504	09/15/20	09/15/20	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C12-C28	**43.0**	25.8	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*95.3 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*112 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**43.0**	25.8	mg/kg dry	1	[CALC]	09/15/20	09/15/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

ESW SH1 1'-2'

0I15001-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**15.1**	1.04	mg/kg dry	1	P0I1504	09/15/20	09/15/20	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C12-C28	**29.1**	26.0	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*97.6 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*116 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**29.1**	26.0	mg/kg dry	1	[CALC]	09/15/20	09/15/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

ESW SH1 2'-3'

0I15001-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**7.75**	1.04	mg/kg dry	1	P0I1504	09/15/20	09/15/20	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*105 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*127 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	09/15/20	09/15/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

SSW SH1 0-6"

0I15001-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**545**	1.10	mg/kg dry	1	P0I1504	09/15/20	09/15/20	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**2830**	137	mg/kg dry	5	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C12-C28	**12400**	137	mg/kg dry	5	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C28-C35	**1680**	137	mg/kg dry	5	P0I1501	09/15/20	09/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*113 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*134 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	**16900**	137	mg/kg dry	5	[CALC]	09/15/20	09/15/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

SSW SH1 6''-1'

0I15001-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**27.2**	1.03	mg/kg dry	1	P0I1504	09/15/20	09/15/20	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C12-C28	**77.2**	25.8	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*123 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**77.2**	25.8	mg/kg dry	1	[CALC]	09/15/20	09/15/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

SSW SH1 1'-2'

0I15001-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**32.9**	1.06	mg/kg dry	1	P0I1504	09/15/20	09/15/20	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C12-C28	**33.1**	26.6	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*100 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*119 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**33.1**	26.6	mg/kg dry	1	[CALC]	09/15/20	09/15/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

SSW SH1 2'-3'

0I15001-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**27.3**	1.08	mg/kg dry	1	P0I1504	09/15/20	09/15/20	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*108 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*130 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	09/15/20	09/15/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

WSW SH1 0-6"

0I15001-09 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**610**	1.08	mg/kg dry	1	P0I1504	09/15/20	09/15/20	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**3950**	134	mg/kg dry	5	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C12-C28	**14700**	134	mg/kg dry	5	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C28-C35	**1940**	134	mg/kg dry	5	P0I1501	09/15/20	09/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*120 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*138 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	**20600**	134	mg/kg dry	5	[CALC]	09/15/20	09/15/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

WSW SH1 6''-1'

0I15001-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**507**	1.03	mg/kg dry	1	P0I1504	09/15/20	09/15/20	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**265**	25.8	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C12-C28	**1550**	25.8	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C28-C35	**201**	25.8	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*111 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*133 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	**2020**	25.8	mg/kg dry	1	[CALC]	09/15/20	09/15/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

WSW SH1 1'-2'

0I15001-11 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**67.1**	1.06	mg/kg dry	1	P0I1504	09/15/20	09/15/20	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C12-C28	**41.5**	26.6	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*109 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*131 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	**41.5**	26.6	mg/kg dry	1	[CALC]	09/15/20	09/15/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

NSW SH1 0-6"

0I15001-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**139**	1.04	mg/kg dry	1	P0I1504	09/15/20	09/15/20	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**2280**	130	mg/kg dry	5	P0I1501	09/15/20	09/16/20	TPH 8015M	
>C12-C28	**8150**	130	mg/kg dry	5	P0I1501	09/15/20	09/16/20	TPH 8015M	
>C28-C35	**995**	130	mg/kg dry	5	P0I1501	09/15/20	09/16/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*111 %*	*70-130*		*P0I1501*	*09/15/20*	*09/16/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*128 %*	*70-130*		*P0I1501*	*09/15/20*	*09/16/20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**11400**	130	mg/kg dry	5	[CALC]	09/15/20	09/16/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

NSW SH1 6''-1'

0I15001-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**237**	1.04	mg/kg dry	1	P0I1504	09/15/20	09/15/20	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**1350**	130	mg/kg dry	5	P0I1501	09/15/20	09/16/20	TPH 8015M	
>C12-C28	**5330**	130	mg/kg dry	5	P0I1501	09/15/20	09/16/20	TPH 8015M	
>C28-C35	**690**	130	mg/kg dry	5	P0I1501	09/15/20	09/16/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*102 %*	*70-130*		*P0I1501*	*09/15/20*	*09/16/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*119 %*	*70-130*		*P0I1501*	*09/15/20*	*09/16/20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**7380**	130	mg/kg dry	5	[CALC]	09/15/20	09/16/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

NSW SH1 1'-2'

0I15001-14 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**25.9**	1.05	mg/kg dry	1	P0I1504	09/15/20	09/15/20	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C12-C28	**98.7**	26.3	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C28-C35	**35.3**	26.3	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*107 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*131 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	**134**	26.3	mg/kg dry	1	[CALC]	09/15/20	09/15/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

NSW SH1 2'-3'

0I15001-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**26.7**	1.19	mg/kg dry	1	P0I1504	09/15/20	09/15/20	EPA 300.0	
% Moisture	**16.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	29.8	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C12-C28	**42.4**	29.8	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C28-C35	ND	29.8	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*111 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*134 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	**42.4**	29.8	mg/kg dry	1	[CALC]	09/15/20	09/15/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

ESW SH2 0-6"

0I15001-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**31.1**	1.03	mg/kg dry	1	P0I1504	09/15/20	09/15/20	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**3340**	129	mg/kg dry	5	P0I1501	09/15/20	09/16/20	TPH 8015M	
>C12-C28	**8170**	129	mg/kg dry	5	P0I1501	09/15/20	09/16/20	TPH 8015M	
>C28-C35	**1140**	129	mg/kg dry	5	P0I1501	09/15/20	09/16/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*115 %*	*70-130*		*P0I1501*	*09/15/20*	*09/16/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*127 %*	*70-130*		*P0I1501*	*09/15/20*	*09/16/20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**12600**	129	mg/kg dry	5	[CALC]	09/15/20	09/16/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

ESW SH2 6''-1'

0I15001-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**11.5**	1.02	mg/kg dry	1	P0I1504	09/15/20	09/15/20	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C12-C28	**78.2**	25.5	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C28-C35	**31.1**	25.5	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*113 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*136 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	**109**	25.5	mg/kg dry	1	[CALC]	09/15/20	09/15/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

ESW SH2 1'-2'

0I15001-18 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**14.9**	1.04	mg/kg dry	1	P0I1504	09/15/20	09/15/20	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*110 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*130 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	09/15/20	09/15/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

ESW SH2 2'-3'

0I15001-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**9.22**	1.05	mg/kg dry	1	P0I1504	09/15/20	09/15/20	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*106 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*130 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	09/15/20	09/15/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

WSW SH2 0-6''

0I15001-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**308**	1.03	mg/kg dry	1	P0I1504	09/15/20	09/15/20	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**467**	25.8	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C12-C28	**1740**	25.8	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
>C28-C35	**196**	25.8	mg/kg dry	1	P0I1501	09/15/20	09/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*128 %*	*70-130*		*P0I1501*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**2410**	25.8	mg/kg dry	1	[CALC]	09/15/20	09/15/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

WSW SH2 6''-1'

0I15001-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**55.4**	1.03	mg/kg dry	1	P0I1512	09/15/20	09/15/20	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*105 %*	*70-130*		*P0I1502*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*117 %*	*70-130*		*P0I1502*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	09/15/20	09/15/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

WSW SH2 1'-2'

0I15001-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**42.0**	1.06	mg/kg dry	1	P0I1512	09/15/20	09/15/20	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*106 %*	*70-130*		*P0I1502*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*121 %*	*70-130*		*P0I1502*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	09/15/20	09/15/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

WSW SH2 2'-3'

0I15001-23 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**8.97**	1.08	mg/kg dry	1	P0I1512	09/15/20	09/15/20	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*107 %*	*70-130*		*P0I1502*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*120 %*	*70-130*		*P0I1502*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	09/15/20	09/15/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

BH SH3 0-1'

0I15001-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**182**	1.08	mg/kg dry	1	P0I1512	09/15/20	09/15/20	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**29.7**	26.9	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
>C12-C28	**194**	26.9	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
>C28-C35	**32.7**	26.9	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*106 %*	*70-130*		*P0I1502*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*121 %*	*70-130*		*P0I1502*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**256**	26.9	mg/kg dry	1	[CALC]	09/15/20	09/15/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

SWSW SH3 2'

0I15001-25 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**192**	1.06	mg/kg dry	1	P0I1512	09/15/20	09/15/20	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**28.4**	26.6	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
>C12-C28	**172**	26.6	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
>C28-C35	**30.7**	26.6	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*108 %*	*70-130*		*P0I1502*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*123 %*	*70-130*		*P0I1502*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**231**	26.6	mg/kg dry	1	[CALC]	09/15/20	09/15/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

BH SH4 1'

0I15001-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**63.3**	1.08	mg/kg dry	1	P0I1512	09/15/20	09/15/20	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*112 %*	*70-130*		*P0I1502*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*129 %*	*70-130*		*P0I1502*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	09/15/20	09/15/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

SWSW SH4 2'

0I15001-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**376**	1.09	mg/kg dry	1	P0I1512	09/15/20	09/15/20	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
>C12-C28	**28.8**	27.2	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*106 %*	*70-130*		*P0I1502*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*118 %*	*70-130*		*P0I1502*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**28.8**	27.2	mg/kg dry	1	[CALC]	09/15/20	09/15/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

BH SH5 1'

0I15001-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**88.2**	1.06	mg/kg dry	1	P0I1512	09/15/20	09/15/20	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
>C12-C28	**183**	26.6	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
>C28-C35	**96.9**	26.6	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*110 %*	*70-130*		*P0I1502*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*125 %*	*70-130*		*P0I1502*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**280**	26.6	mg/kg dry	1	[CALC]	09/15/20	09/15/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

SWSW SH5 2'

0I15001-29 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**34.3**	1.09	mg/kg dry	1	P0I1512	09/15/20	09/15/20	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**27.3**	27.2	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
>C12-C28	**188**	27.2	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
>C28-C35	**33.3**	27.2	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*110 %*	*70-130*		*P0I1502*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*125 %*	*70-130*		*P0I1502*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**248**	27.2	mg/kg dry	1	[CALC]	09/15/20	09/15/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

BG 6"

0I15001-30 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**4.24**	1.02	mg/kg dry	1	P0I1512	09/15/20	09/15/20	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P0I1602	09/16/20	09/16/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0I1502	09/15/20	09/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		*107 %*	*70-130*		*P0I1502*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*123 %*	*70-130*		*P0I1502*	*09/15/20*	*09/15/20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	09/15/20	09/15/20	calc	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

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 P0I1504 - * DEFAULT PREP *** **										
Blank (P0I1504-BLK1)				Prepared & Analyzed: 09/15/20						
Chloride	ND	1.00	mg/kg wet							
LCS (P0I1504-BS1)				Prepared & Analyzed: 09/15/20						
Chloride	417	1.00	mg/kg wet	400		104	80-120			
LCS Dup (P0I1504-BSD1)				Prepared & Analyzed: 09/15/20						
Chloride	418	1.00	mg/kg wet	400		104	80-120	0.225	20	
Calibration Blank (P0I1504-CCB1)				Prepared & Analyzed: 09/15/20						
Chloride	0.00		mg/kg wet							
Calibration Blank (P0I1504-CCB2)				Prepared & Analyzed: 09/15/20						
Chloride	0.00		mg/kg wet							
Calibration Check (P0I1504-CCV1)				Prepared & Analyzed: 09/15/20						
Chloride	18.8		mg/kg	20.0		94.2	0-200			
Calibration Check (P0I1504-CCV2)				Prepared & Analyzed: 09/15/20						
Chloride	19.0		mg/kg	20.0		94.8	0-200			
Calibration Check (P0I1504-CCV3)				Prepared & Analyzed: 09/15/20						
Chloride	19.0		mg/kg	20.0		95.0	0-200			
Matrix Spike (P0I1504-MS1)		**Source: 0I15001-01**		Prepared & Analyzed: 09/15/20						
Chloride	509	1.03	mg/kg dry	515	16.8	95.4	80-120			
Matrix Spike (P0I1504-MS2)		**Source: 0I15001-10**		Prepared & Analyzed: 09/15/20						
Chloride	536	1.03	mg/kg dry	515	507	5.77	80-120			QM-05

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

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 P0I1504 - * DEFAULT PREP *** **										
Matrix Spike Dup (P0I1504-MSD1)	**Source: 0I15001-01**			Prepared & Analyzed: 09/15/20						
Chloride	508	1.03	mg/kg dry	515	16.8	95.3	80-120	0.0690	20	
Matrix Spike Dup (P0I1504-MSD2)	**Source: 0I15001-10**			Prepared & Analyzed: 09/15/20						
Chloride	545	1.03	mg/kg dry	515	507	7.40	80-120	1.56	20	QM-05
Batch P0I1512 - * DEFAULT PREP *** **										
Blank (P0I1512-BLK1)				Prepared & Analyzed: 09/15/20						
Chloride	ND	1.00	mg/kg wet							
LCS (P0I1512-BS1)				Prepared & Analyzed: 09/15/20						
Chloride	415	1.00	mg/kg wet	400		104	80-120			
LCS Dup (P0I1512-BSD1)				Prepared & Analyzed: 09/15/20						
Chloride	415	1.00	mg/kg wet	400		104	80-120	0.0121	20	
Calibration Blank (P0I1512-CCB1)				Prepared & Analyzed: 09/15/20						
Chloride	0.00		mg/kg wet							
Calibration Blank (P0I1512-CCB2)				Prepared & Analyzed: 09/15/20						
Chloride	0.00		mg/kg wet							
Calibration Check (P0I1512-CCV1)				Prepared & Analyzed: 09/15/20						
Chloride	19.2		mg/kg	20.0		96.0	0-200			
Calibration Check (P0I1512-CCV2)				Prepared & Analyzed: 09/15/20						
Chloride	18.9		mg/kg	20.0		94.5	0-200			

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

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 P0I1512 - * DEFAULT PREP *** **										
Calibration Check (P0I1512-CCV3)				Prepared & Analyzed: 09/15/20						
Chloride	19.4		mg/kg	20.0		97.2	0-200			
Matrix Spike (P0I1512-MS1)		Source: 0I15001-21		Prepared & Analyzed: 09/15/20						
Chloride	561	1.03	mg/kg dry	515	55.4	98.0	80-120			
Matrix Spike (P0I1512-MS2)		Source: 0I15004-01		Prepared & Analyzed: 09/15/20						
Chloride	24700	52.6	mg/kg dry	5260	18900	110	80-120			
Matrix Spike Dup (P0I1512-MSD1)		Source: 0I15001-21		Prepared & Analyzed: 09/15/20						
Chloride	562	1.03	mg/kg dry	515	55.4	98.2	80-120	0.147	20	
Matrix Spike Dup (P0I1512-MSD2)		Source: 0I15004-01		Prepared & Analyzed: 09/15/20						
Chloride	24200	52.6	mg/kg dry	5260	18900	101	80-120	1.85	20	
Batch P0I1602 - * DEFAULT PREP *** **										
Blank (P0I1602-BLK1)				Prepared & Analyzed: 09/16/20						
% Moisture	ND	0.1	%							
Blank (P0I1602-BLK2)				Prepared & Analyzed: 09/16/20						
% Moisture	ND	0.1	%							
Blank (P0I1602-BLK3)				Prepared & Analyzed: 09/16/20						
% Moisture	ND	0.1	%							
Blank (P0I1602-BLK4)				Prepared & Analyzed: 09/16/20						
% Moisture	ND	0.1	%							

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

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 P0I1602 - * DEFAULT PREP *** **										
Blank (P0I1602-BLK5)				Prepared & Analyzed: 09/16/20						
% Moisture	ND	0.1	%							
Blank (P0I1602-BLK6)				Prepared & Analyzed: 09/16/20						
% Moisture	ND	0.1	%							
Duplicate (P0I1602-DUP1)		**Source: 0I15001-10**		Prepared & Analyzed: 09/16/20						
% Moisture	5.0	0.1	%		3.0			50.0	20	R3
Duplicate (P0I1602-DUP2)		**Source: 0I15001-20**		Prepared & Analyzed: 09/16/20						
% Moisture	4.0	0.1	%		3.0			28.6	20	R3
Duplicate (P0I1602-DUP3)		**Source: 0I15002-05**		Prepared & Analyzed: 09/16/20						
% Moisture	19.0	0.1	%		19.0			0.00	20	
Duplicate (P0I1602-DUP4)		**Source: 0I15002-15**		Prepared & Analyzed: 09/16/20						
% Moisture	13.0	0.1	%		15.0			14.3	20	
Duplicate (P0I1602-DUP5)		**Source: 0I15002-30**		Prepared & Analyzed: 09/16/20						
% Moisture	15.0	0.1	%		15.0			0.00	20	
Duplicate (P0I1602-DUP6)		**Source: 0I15002-40**		Prepared & Analyzed: 09/16/20						
% Moisture	11.0	0.1	%		10.0			9.52	20	
Duplicate (P0I1602-DUP7)		**Source: 0I15002-55**		Prepared & Analyzed: 09/16/20						
% Moisture	14.0	0.1	%		13.0			7.41	20	
Duplicate (P0I1602-DUP8)		**Source: 0I15002-65**		Prepared & Analyzed: 09/16/20						
% Moisture	13.0	0.1	%		13.0			0.00	20	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

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 P0I1602 - * DEFAULT PREP *** **										
Duplicate (P0I1602-DUP9)		**Source: 0I15002-80**		Prepared & Analyzed: 09/16/20						
% Moisture	13.0	0.1	%		13.0			0.00	20	
Duplicate (P0I1602-DUPA)		**Source: 0I15005-01**		Prepared & Analyzed: 09/16/20						
% Moisture	9.0	0.1	%		9.0			0.00	20	

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

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 P0I1501 - TX 1005										
Matrix Spike (P0I1501-MS1)	**Source: 0I15001-20**			Prepared & Analyzed: 09/15/20						
C6-C12	1430	25.8	mg/kg dry	1030	467	93.5	75-125			
>C12-C28	2390	25.8	"	1030	1740	63.1	75-125			QM-05
Surrogate: 1-Chlorooctane	*118*		*"*	*124*		*95.5*	*70-130*			
Surrogate: o-Terphenyl	*66.8*		*"*	*61.9*		*108*	*70-130*			
Matrix Spike Dup (P0I1501-MSD1)	**Source: 0I15001-20**			Prepared: 09/15/20 Analyzed: 09/16/20						
C6-C12	1370	25.8	mg/kg dry	1030	467	87.8	75-125	6.24	20	
>C12-C28	2340	25.8	"	1030	1740	58.1	75-125	8.18	20	QM-05
Surrogate: 1-Chlorooctane	*111*		*"*	*124*		*90.1*	*70-130*			
Surrogate: o-Terphenyl	*63.4*		*"*	*61.9*		*103*	*70-130*			
Batch P0I1502 - TX 1005										
Matrix Spike (P0I1502-MS1)	**Source: 0I15001-30**			Prepared: 09/15/20 Analyzed: 09/16/20						
C6-C12	1140	25.5	mg/kg dry	1020	14.7	110	75-125			
>C12-C28	1200	25.5	"	1020	10.8	117	75-125			
Surrogate: 1-Chlorooctane	*119*		*"*	*122*		*97.2*	*70-130*			
Surrogate: o-Terphenyl	*64.3*		*"*	*61.2*		*105*	*70-130*			
Matrix Spike Dup (P0I1502-MSD1)	**Source: 0I15001-30**			Prepared: 09/15/20 Analyzed: 09/16/20						
C6-C12	1150	25.5	mg/kg dry	1020	14.7	111	75-125	0.951	20	
>C12-C28	1230	25.5	"	1020	10.8	120	75-125	2.23	20	
Surrogate: 1-Chlorooctane	*125*		*"*	*122*		*102*	*70-130*			
Surrogate: o-Terphenyl	*67.5*		*"*	*61.2*		*110*	*70-130*			

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

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: Brent Barron Date: 9/16/2020

Brent Barron, Laboratory Director/Technical Director

Cimarex	Project: Dos Equis 12 Fed Com 3H	Fax: (432) 571-7832
600 N. Marinfeld, Ste. 600	Project Number: [none]	
Midland TX, 79701	Project Manager: Gloria Garza	

CIMAREX

01 15001

CHAIN OF CUSTODY RECORD

000605

Facility Name: Dos Equis 12 Fed Com 3H	Analytical Laboratory Name: PBE Lab		Today's Date: 9.14.2020
Address:	Address: 1400 Rankin Hwy City: Midland Zip: 79701		Page: 1 Of: 3
City: State: Zip:	Contact Name and Report to: Gloria Garza ggarza@cimarex.com		Analysis/Analytes
Sample Group Identifier	Phone: 432 234 3204 Fax:		Chlorides, TPH
Site/Project Name or Identifier: Dos Equis 12 Fed Com 3H	Carrier Waybill Number		
Special Instructions: RUSH 24 Hours			

	Station Name or Sample ID	Sample Date	Time 24 hrs	Matrix	Sample Top	Sample Btm	Size	Containers Type	Containers No.	Filtered Y	Filtered N	Preservative	Comments	Chlorides	TPH
1	ESW SH1	9.14.20	12 31	Soil	0	6"	2 oz	jar	1	□	X	Ice	Composite	X	X
2	ESW SH1		12 42		6"	1'				□	X	Ice		□	□
3	ESW SH1		12 44		1'	2'				□	X			□	□
4	ESW SH1		12 55		2'	3'				□	X			□	□
5	SSW SH1		13 01		0	6"				□	X			□	□
6	SSW SH1		13 03		6"	1'				□	X			□	□
7	SSW SH1		13 04		1'	2'				□	X			□	□
8	SSW SH1		13 05		2'	3'				□	X			□	□
9	WSW SH1		13 12		0	6"				□	X			□	□
10	WSW SH1		13 14		6"	1'				□	X			□	□
11	WSW SH1		13 15		1'	2'				□	X			□	□
	~~WSW SH1~~	~~9.14.20~~	~~13 20~~		~~2'~~	~~3'~~				□	X			□	□
12	WSW SH1		13 18		0	6"				□	X			□	□

Notes:

Potential Hazardous Characteristics

☑ Non-Haz ☐ RCRA D001, 2&3, or 4 ☐ RCRA Listed ☐ Radioactive ☐ Unknown

Sample Disposal

☑ Disposal by Lab ☐ Return to Client ☐ Hold pending further instructions

1. Relinquished by: gloria garza	Date: 9.14.20	Time: 16:03	2. Received by: Laci Loj	Date: 9.14.20	Time: 16:03
3. Relinquished by: Laci Loj	Date: 9.15.20	Time: 8:03	4. Received by:	Date:	Time:
5. Relinquished by:	Date:	Time:	6. Received by:	Date: 9:15.20	Time: 8:03
Comments			Samples released by or H.P. name	Date:	Time:
Comments			Send invoice to ESH Department		

Temp 4/5 CF1 LZ

Original – Send to lab with sample Yellow – Return to ESH Pink – Remain in book

Version 1: 4/21/2015

CIMAREX

CHAIN OF CUSTODY RECORD

000606

Facility Name: DOS Equis 12 Fed Com 3H	Analytical Laboratory Name: PBE lab		Today's Date: 9.14.2020
Address	Address: 1400 Rankin Hwy	City: Midland	Zip: 79701
City / State / Zip	Contact Name and Report to: Gloria Garza	ggarza@cimarex.com	Page: 2 Of: 3
Sample Group Identifier	Phone: 432.234.3204	Fax	Analysis/Analytes
Site/Project Name or Identifier: DOS Equis 12 Fed Com 3H	Carrier Waybill Number		
Special Instructions: RUSH 24 HOURS			

	Station Name or Sample ID	Sample Date	Time 24 hrs	Matrix	Sample Top	Sample Btm	Size	Containers Type	Containers No.	Filtered Y	Filtered N	Preservative	Comments	Chlorides	TPH
3	NSW SH1	9.14.20	1319	Soil	6"	1'	2 oz	Jar	1	☐	☒	~~None~~ Ice	Composite	☐	☐
4	NSW SH1	9.14.20	1321		1'	2'				☐	☒	Ice		☐	☐
5	NSW SH1		1322		2'	3'				☐	☒			☐	☐
6	ESW SH2		1424		0	6"				☐	☒			☐	☐
7	ESW SH2		1426		6"	1'				☐	☒			☐	☐
18	ESW SH2		14:27		1'	2'				☐	☒			☐	☐
19	ESW SH2		14:29		2'	3'				☐	☒			☐	☐
20	WSW SH2		1438		0	6"				☐	☒			☐	☐
21	WSW SH2		1440		6"	1'				☐	☒			☐	☐
22	WSW SH2		1442		1'	2'				☐	☒			☐	☐
23	WSW SH2		1443		2'	3'				☐	☒			☐	☐
24	BH SH3		1454		0	1'				☐	☒			☐	☐
25	SWSW SH3		1535			2'				☐	☒			☐	☐

Notes:

Potential Hazardous Characteristics

☑ Non-Haz ☐ RCRA D001, 2&3, or 4 ☐ RCRA Listed ☐ Radioactive ☐ Unknown

Sample Disposal

☑ Disposal by Lab ☐ Return to Client ☐ Hold pending further instructions

Relinquished by: gloria ggarza	Date: 9.14.20	Time: 16:03	2. Received by: Zac Lz	Date: 9.14.20	Time: 16:03
Relinquished by: Zac Lz	Date: 9.15.20	Time: 8:03	4. Received by:	Date:	Time:
Relinquished by:	Date:	Time:	6. Received by:	Date: 9:15:20	Time: 8:03
Comments			Samples released by or H.P. name	Date:	Time:
Comments			Send invoice to ESH Department		

Temp 4/5 CPI LZ

Original – Send to lab with sample Yellow – Return to ESH Pink – Remain in book

Version 1: 4/21/2015

CIMAREX

CHAIN OF CUSTODY RECORD

000607

Facility Name: Dos Equis 12 Fed Com 3H	Analytical Laboratory Name: PBE LAB		Today's Date: 9.14.2020
Address:	Address: 1400 Rankin Hwy	City: Midland	Zip: 79701
City / State / Zip:	Contact Name and Reporting: Gloria Garza ggarza@cimarex.com		Page: 3 Of: 3
Sample Group Identifier	Phone: 4322343204	Fax:	Analysis/Analytes
Site/Project Name or Identifier: Dos Equis 12 Fed Com 3H	Carrier Waybill Number		
Special Instructions: RUSH @24 Hours			

	Station Name or Sample ID	Sample Date	Time 24 hrs	Matrix	Sample Top	Sample Btm	Size	Containers Type	Containers No.	Filtered Y	Filtered N	Preservative	Comments	Chlorides	TPH
6	BH SH4	9.14.20	1457	Soil	—	1'	2 oz	Jar	1	□	X	ICE ~~NONE~~	Composite	X	X
7	SWSW SH4		1527		—	2'				□	□	ICE		□	□
8	BH SH5		1503		—	1'				□	□			□	□
9	SWSW SH5		1515		—	2'				□	□			□	□
10	BG		1352		—	6"				□	□			□	□

Notes:

Potential Hazardous Characteristics

☑ Non-Haz ☐ RCRA D001, 2&3, or 4 ☐ RCRA Listed ☐ Radioactive ☐ Unknown

Sample Disposal

☑ Disposal by Lab ☐ Return to Client ☐ Hold pending further instructions

Relinquished by	Gloria Garza	Date 9.14.20	Time 16:03	2. Received by	Zac Lara	Date 9.14.20	Time 16:03
Relinquished by	Zac Lara	Date 9.15.20	Time 8:03	4. Received by		Date	Time
Relinquished by		Date	Time	6. Received by		Date 9.15.20	Time 8:03
Comments				Samples released by or H.P. name		Date	Time
Comments				Send invoice to ESH Department			

Temp 4/5 CF1 L2

Original – Send to lab with sample Yellow – Return to ESH Pink – Remain in book

Version 1: 4/21/2015

ATTACHMENT B

Depth to Water

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- **NOTICE 09-08-2020: The NWIS Mapper is experiencing intermittent issues. Developers are looking into the problem. Thank you for your patience.**
- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 321312103395601

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 321312103395601 24S.32E.10.344333

Lea County, New Mexico
Latitude 32°13'30.4", Longitude 103°39'52.7" NAD83
Land-surface elevation 3,589.00 feet above NGVD29
The depth of the well is 60 feet below land surface.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1950-04-13		D	33.64			2		U		
1955-06-03		D	31.90			2	R	U		
1976-01-22		D	31.80			2		U		
1981-03-20		D	19.93			2		U		
1986-03-18		D	37.16			2		U		
1991-05-29		D	39.64			2		U		
1996-03-14		D	38.20			2		S		
2001-02-27		D	36.58			2		S		
2006-02-07	09:30 MST	m	19.40			2		S	USGS	
2010-12-16	15:30 MST	m	33.96			2		S	USGS	

Explanation

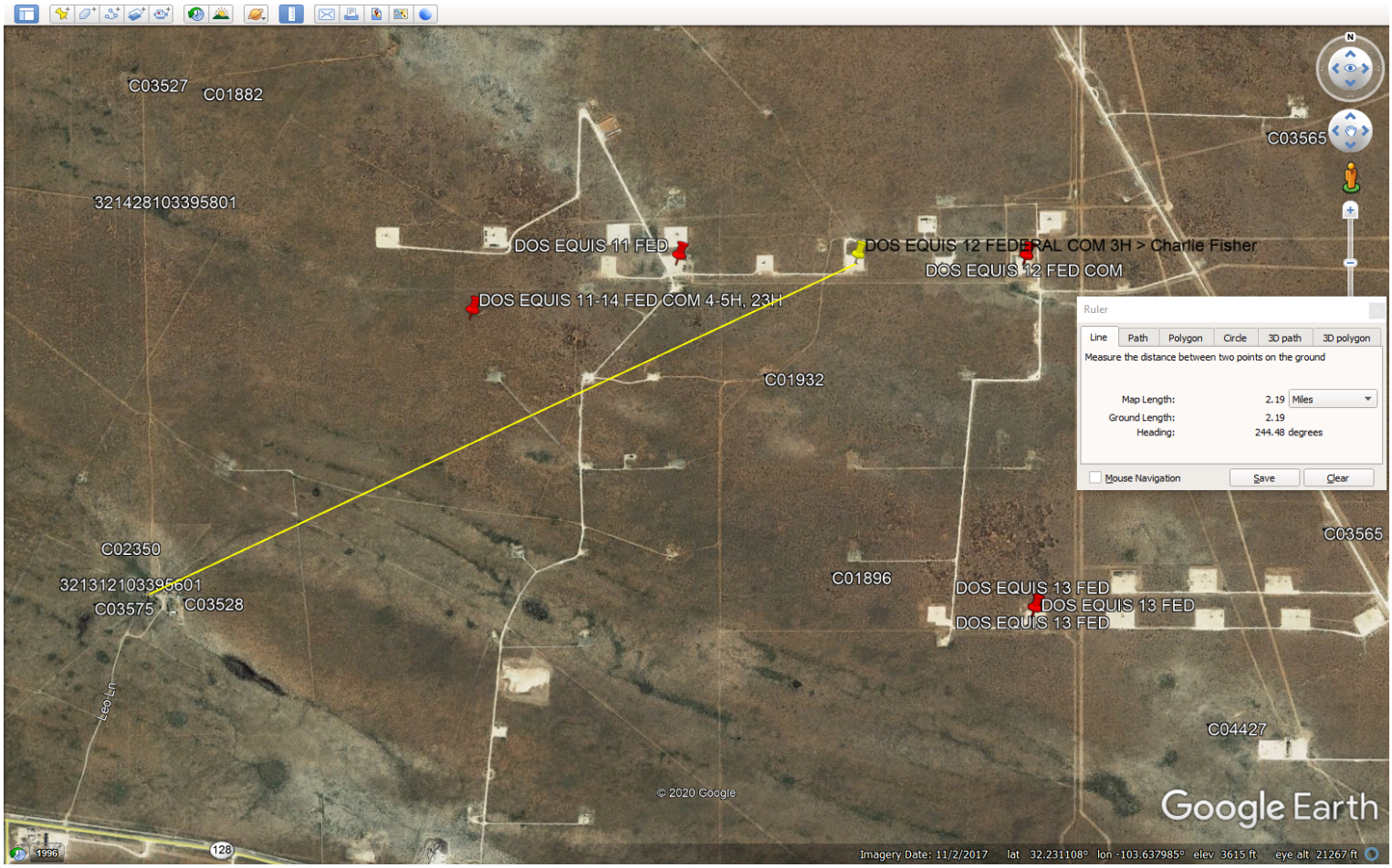
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Status	R	Site had been pumped recently.
Method of measurement	S	Steel-tape measurement.

Section	Code	Description
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy Policies and Notices
U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2020-09-10 14:25:40 EDT
0.28 0.25 nadww02


C03527
C01882
C03565
321428103395801
DOS EQUIS 11 FED
DOS EQUIS 12 FEDERAL COM 3H > Charlie Fisher
DOS EQUIS 12 FED COM
DOS EQUIS 11-14 FED COM 4-5H, 23H
C01932
Ruler
Line
Path
Polygon
Circle
3D path
3D polygon
Measure the distance between two points on the ground
Map Length: 2.19 Miles
Ground Length: 2.19
Heading: 244.48 degrees
Mouse Navigation
Save
Clear
C02350
C03565
321312103395601
C03575
C03528
C01896
DOS EQUIS 13 FED
DOS EQUIS 13 FED
DOS EQUIS 13 FED
Lea Cty Ln
C04427
© 2020 Google
Google Earth
1996
128
Imagery Date: 11/2/2017 lat 32.231108° lon -103.637985° elev 3615 ft eye alt 21267 ft

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)

☒ Crude Oil	Volume Released (bbls) 5	Volume Recovered (bbls) 0.5
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ 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 ½ 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? ☐ Yes ☒ 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: Laci Luig Date: 9/4/2020

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

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

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?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ 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)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ 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?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ 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.

Form C-141
Page 4

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: Laci Luig Date: 1/25/2021

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

OCD Only

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

State of New Mexico
Oil Conservation Division

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: Laci Luig Date: 1/25/2021

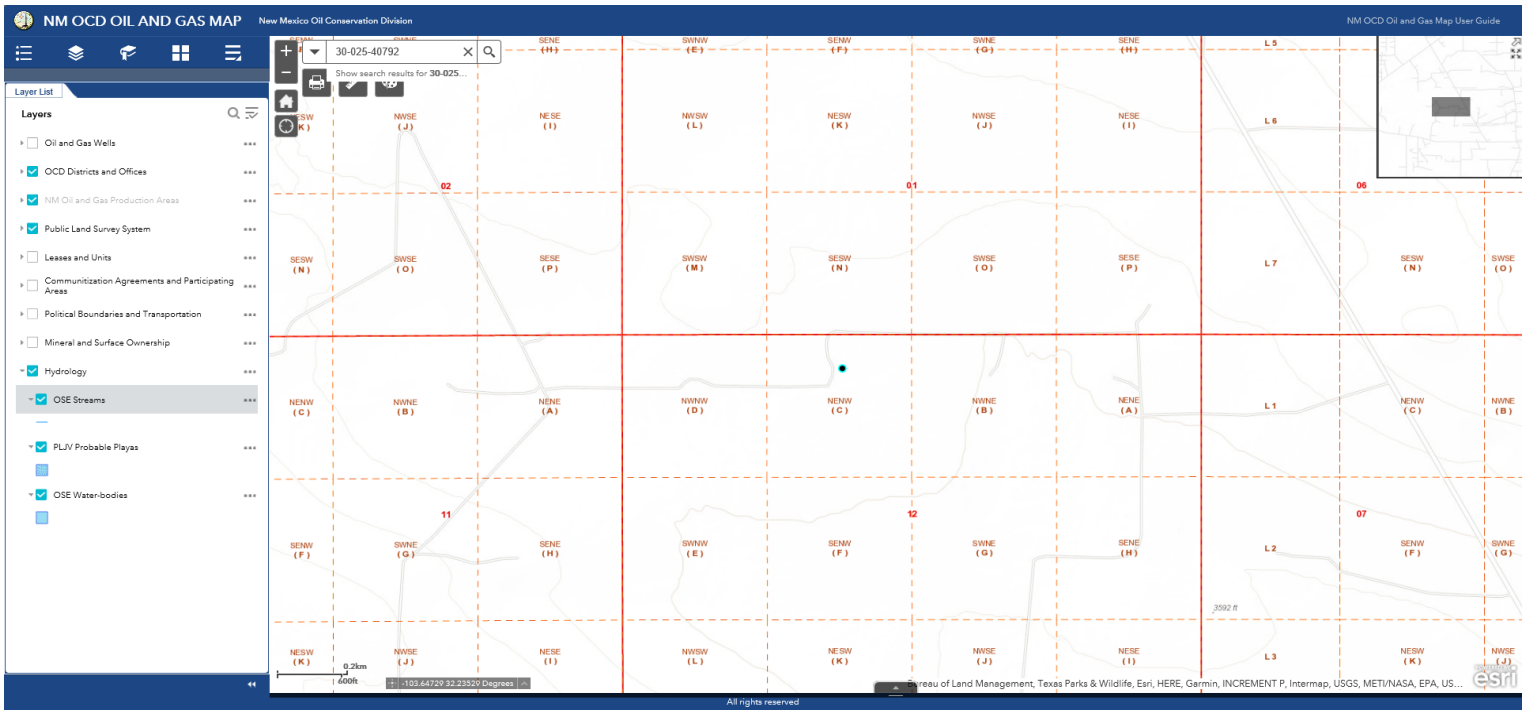
email: lluig@cimarex.com Telephone: (432) 571-7810

OCD Only

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

☐ Approved ☑ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Cristina Eads Date: 02/04/2021


NM OCD OIL AND GAS MAP
New Mexico Oil Conservation Division
NM OCD Oil and Gas Map User Guide
Layer List
Layers
Oil and Gas Wells
OCD Districts and Offices
NM Oil and Gas Production Areas
Public Land Survey System
Leases and Units
Communitization Agreements and Participating Areas
Political Boundaries and Transportation
Mineral and Surface Ownership
Hydrology
OSE Streams
PLJV Probable Playas
OSE Water-bodies
30-025-40792
Show search results for 30-025...
0.2km
600ft
-103.64729 32.23529 Degrees
Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, US...
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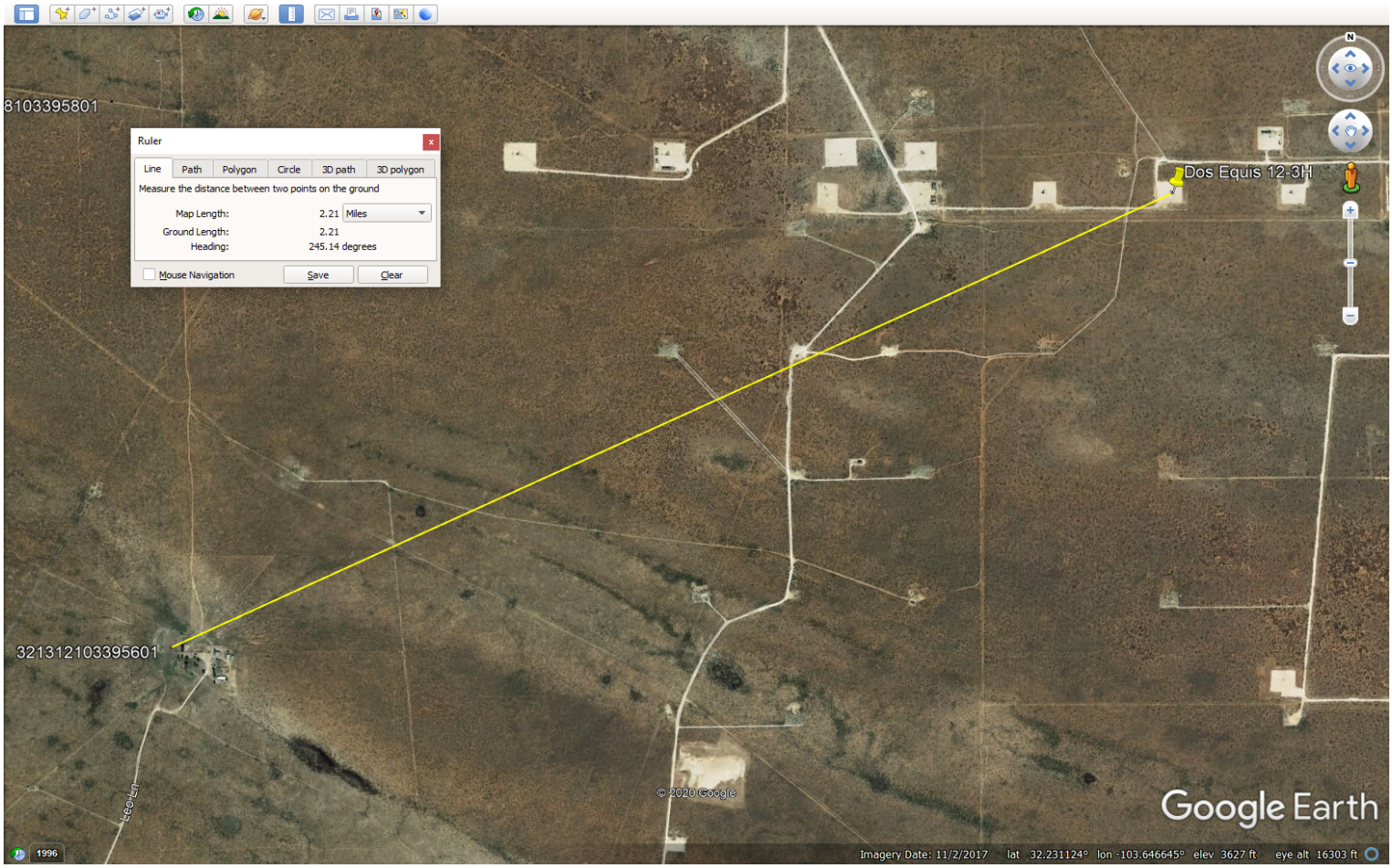
esri


3103395801
Ruler
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Path
Polygon
Circle
3D path
3D polygon
Measure the distance between two points on the ground
Map Length:
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Miles
Ground Length:
2.21
Heading:
245.14 degrees
Mouse Navigation
Save
Clear
Dos Equis 12-3H
321312103395601
Lee Ln
© 2020 Google
Google Earth
1996
Imagery Date: 11/2/2017 lat 32.231124° lon -103.646645° elev 3627 ft eye alt 16303 ft

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- **NOTICE 09-08-2020: The NWIS Mapper is experiencing intermittent issues. Developers are looking into the problem. Thank you for your patience.**
- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 321555103381501

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 321555103381501 23S.32E.35.224111

Lea County, New Mexico
Latitude 32°15'59.0", Longitude 103°38'17.6" NAD83
Land-surface elevation 3,678.00 feet above NGVD29
The depth of the well is 700 feet below land surface.
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1976-12-08		D	487.39			2	R	U		
2013-01-16	17:30 MST	m					P	S	USGS	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Water-level accuracy		Not determined
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status	P	Site was being pumped.
Status	R	Site had been pumped recently.
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2020-10-01 12:24:33 EDT
0.28 0.26 nadww01

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 10470

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
CIMAREX ENERGY CO. 600 N. Marienfeld Street Suite 600 Midland, TX79701	215099	10470	C-141

OCD Reviewer	Condition
ceads	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.