



CDH Consulting, LLC
Thornton, Colorado
720.431.7468
www.CDHConsult.com

Facility Closure Investigation and Environmental Summary

MOSIER K23-21D Tank Battery
ECMC Remediation Project #39049
Weld County, Colorado

Attachments:

Field Form

Figure 1 – Site Location Map

Figure 2 – Soil Sample and Field Screening Locations Map

Figure 3 – Supplemental Source Mass Removal Map

Table 1 – Field Data Summary Table

Table 2 – Summary of Volatile Organic Soil Chemistry Data

Table 3 – Summary of Polycyclic Aromatic Hydrocarbon Soil Chemistry Data

Table 4 – Summary of Soil Suitability for Reclamation

Table 5 – Summary of Metals in Soil Chemistry Data

Photographic Log



CDH Consulting, LLC
Thornton, Colorado
720.431.7468
www.CDHConsult.com

FIELD FORM

SITE NAME / REM: MOSIER K23-21D REM #39049								DATE: 4/10/2025	WEATHER: sunny and 55
TYPE OF WORK: Tank battery decommissioning								CLIENT: Noble Energy Inc.	
LAT/LONG: 40.296900, -104.745094								PERSONNEL: RJ	
ESTIMATED DEPTH TO GROUNDWATER: 5-6 ft-bgs								OTHER OBSERVATIONS: None	
SOIL SAMPLING								FACILITY INFRASTRUCTURE	
Date	Soil Sample ID	Soil Type	PID (ppm)	Staining (Y/N)	Odor (Y/N)	Time	Sent to lab on Ice? (Y/N)	EQUIPMENT	Quantity
								Above Ground Storage Tank (AST)	3
4/10/2025	ECD01@0-6"	Well-graded sand SW	0.0	N	N	NA	NA	Buried or Partially Buried Vessel	5
4/10/2025	ECD02@0-6"	SW	0.4	N	N	NA	NA	Separator	4
4/10/2025	SEP01-DL@3'	Clayey sand SC	1231	Y	Y	9:50	Y	Emission Control Device (ECD)	2
4/10/2025	SEP02-DL@3'	SC	3.3	N	N	9:52	Y	Dump Line	4
4/10/2025	SEP03-DL@3'	SC	0.4	N	N	9:54	Y	Wellhead	1
4/10/2025	SEP04-DL@3'	SC	64.7	Y	Y	9:56	Y	Flowline	1
4/10/2025	AST01@0-6"	SW	0.1	N	N	14:20	Y	Third Party Equipment:	1 (Meter House)
4/10/2025	AST02@0-6"	SW	0.0	N	N	14:22	Y	Other:	
4/10/2025	AST03@0-6"	SW	0.1	N	N	14:24	Y	Soil Loads Removed	
4/10/2025	PWV01@5'	SC	0.4	N	N	11:40	Y	IMPACTED SOIL IDENTIFIED? Yes	
4/10/2025	PWV02@5'	SC	0.1	N	N	11:42	Y	ESTIMATED VOLUME OF IMPACTS: 6x6x3' (Sep-01), 10x10x3' (Sep-04)	
4/10/2025	PWV03@5'	SC	0.6	N	N	11:44	Y	Date	Number CY
4/10/2025	PWV04@5'	SC	0.8	N	N	11:46	Y		
4/10/2025	PWV-N1@4'	SC	0	N	N	NA	NA		
4/10/2025	PWV-N2@4'	SC	0.2	N	N	NA	NA		
4/10/2025	PWV-S1@4'	SC	0.5	N	N	11:48	Y		
4/10/2025	PWV-S2@4'	SC	0.0	N	N	NA	NA		
4/10/2025	PWV-E@4'	SC	0.3	N	N	NA	NA		
4/10/2025	PWV-W@4'	SC	0.1	N	N	NA	NA		
4/10/2025	PWV05@5'	SC	2.1	N	N	13:35	Y		
4/10/2025	PWV05-N@4'	SC	1.6	N	N	NA	NA		
4/10/2025	PWV05-E@4'	SC	2.5	N	N	13:40	Y		
4/10/2025	PWV05-S@4'	SC	1.2	N	N	NA	NA		
4/10/2025	PWV05-W@4'	SC	1.1	N	N	NA	NA		
4/10/2025	BKG01@0-6"	SP	0.0	N	N	13:00	Y		
4/10/2025	BKG01@3'	SC	0.0	N	N	13:02	Y		
4/10/2025	BKG01@4.5'	SC	0.0	N	N	13:04	Y		
4/10/2025	BKG02@0-6"	SP	0.0	N	N	13:10	Y	Total Removed	
4/10/2025	BKG02@3'	SC	0.0	N	N	13:12	Y	Disposal Facility:	
4/10/2025	BKG02@4.5'	SC	0.0	N	N	13:14	Y	Groundwater Recovery	
4/10/2025	BKG03@0-6"	SP	0.0	N	N	13:20	Y	DATE GW ENCOUNTERED:	DEPTH:
4/10/2025	BKG03@3'	SC	0.0	N	N	13:22	Y	GROUNDWATER IN CONTACT WITH IMPACTED SOIL?	
4/10/2025	BKG03@4.5'	SC	0.0	N	N	13:24	Y	LNAPL OR SHEEN OBSERVED ON GW?	



CDH Consulting, LLC
Thornton, Colorado
720.431.7468
www.CDHConsult.com

FIGURES

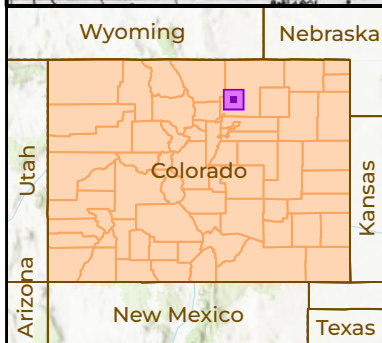
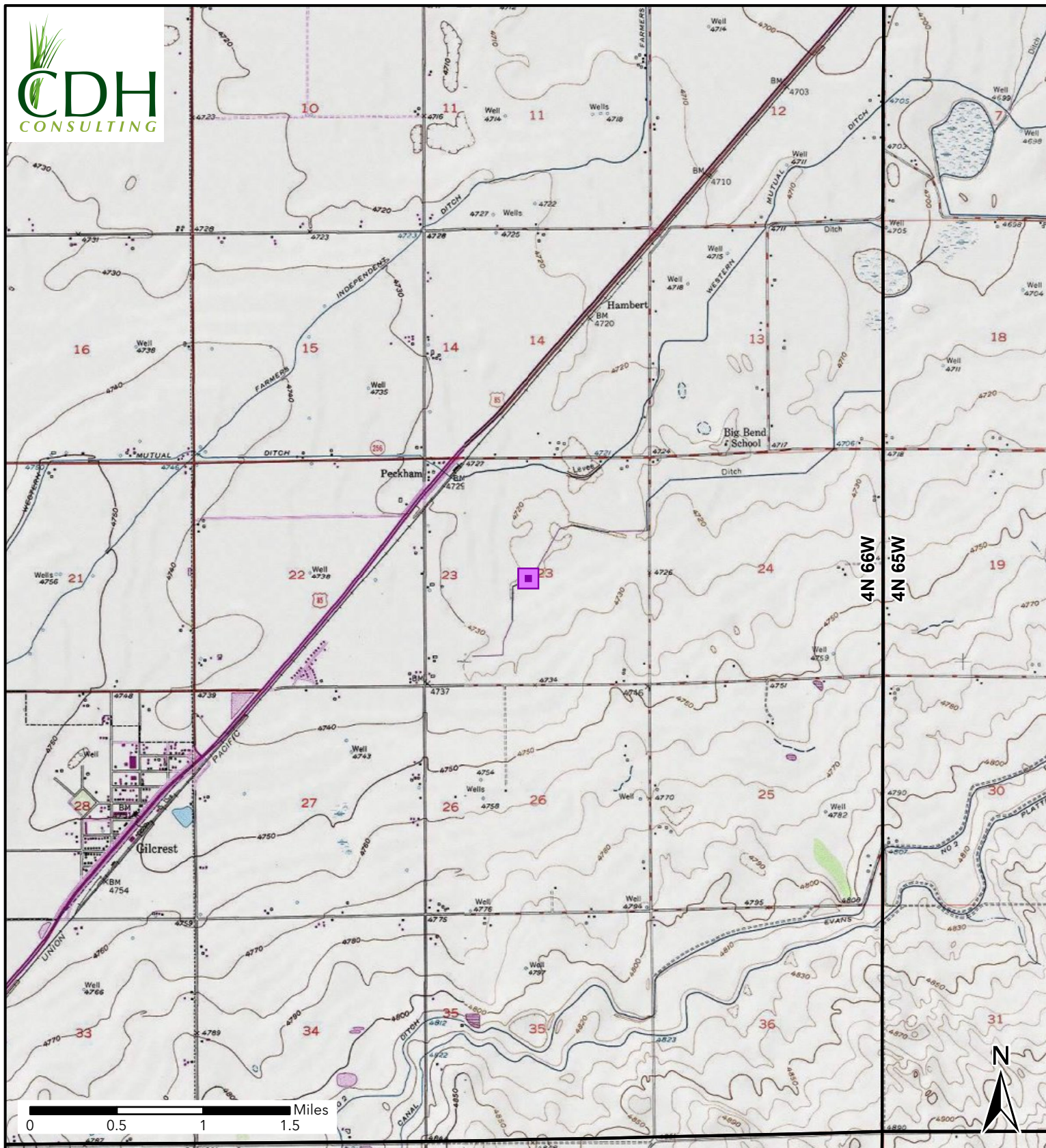


Figure 1
Site Location
MOSIER K23-21D TB
NESW-SEC 23-T4N-R66W
Weld County, Colorado
Noble Energy Inc.

 Site Location

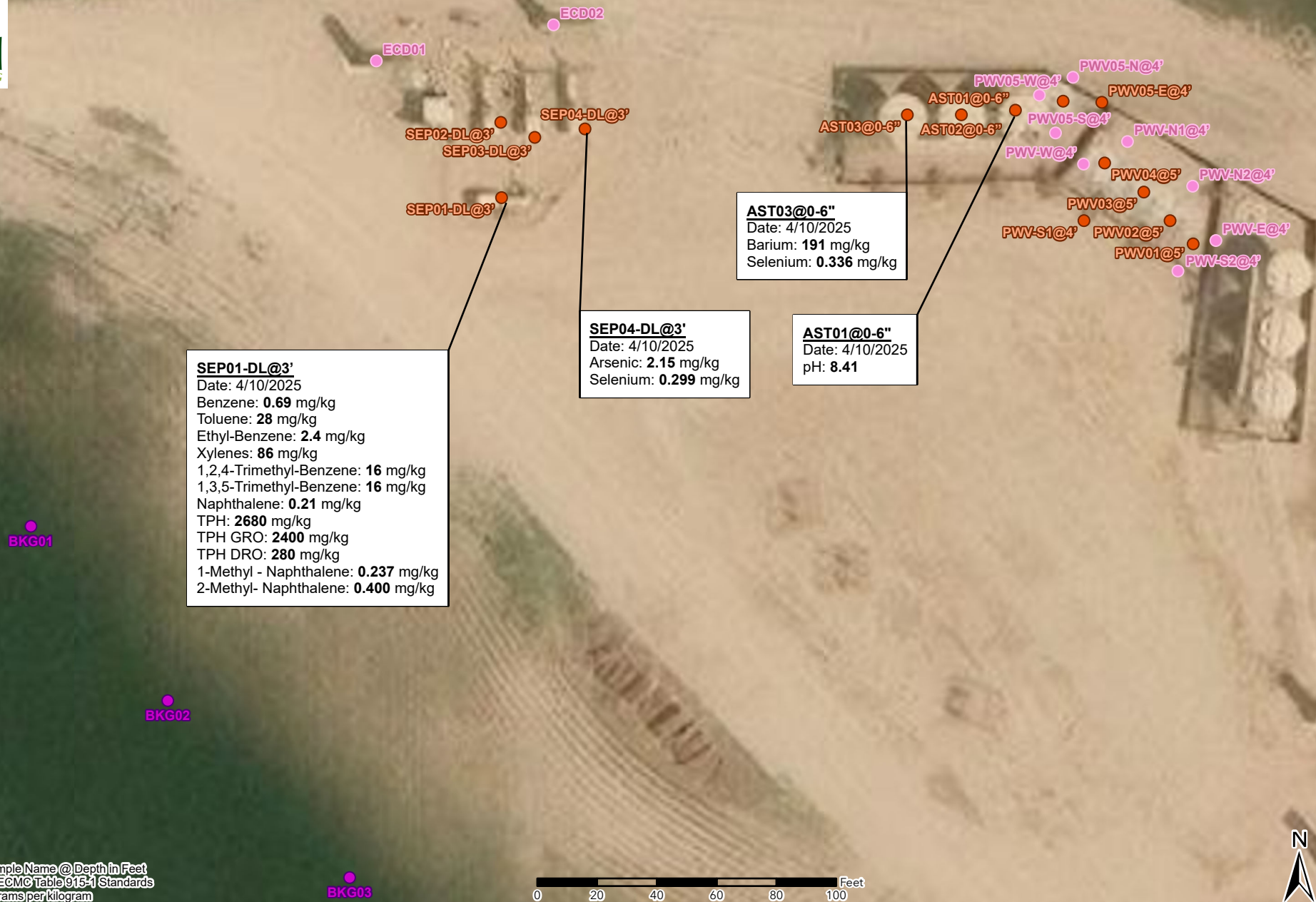


Figure 2
Soil Sample and Field Screening Locations
MOSIER K23-21D
NENE-SEC 14-T5N-R64W
Weld County, Colorado
Noble Energy Inc.

- Soil Sample
- Background Sample
- Screening Point





Figure 3
Supplemental Source Mass Removal Map
 MOSIER K23-21D
 NENE-SEC 14-T5N-R64W
 Weld County, Colorado
 Noble Energy Inc.



CDH Consulting, LLC
Thornton, Colorado
720.431.7468
www.CDHConsult.com

TABLES

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE 100322
MOSIER K23-21D, WELD COUNTY, COLORADO
REM # 39049

Sample ID	Sample Date	Depth (ft)	GPS Data Latitude/Longitude		PDOP Value	VOC Concentration (ppm)
ECD01@0-6"	4/10/2025	0-0.5	40.297033	-104.745427	0.850224	0.0
ECD02@0-6"	4/10/2025	0-0.5	40.297058	-104.745264	0.804501	0.4
SEP01-DL@3'	4/10/2025	3	40.296937	-104.745312	0.854792	1231
SEP02-DL@3'	4/10/2025	3	40.296990	-104.745313	0.828317	3.3
SEP03-DL@3'	4/10/2025	3	40.296986	-104.745292	NM	0.4
SEP04-DL@3'	4/10/2025	3	40.296985	-104.745236	0.857369	64.7
AST01@0-6"	4/10/2025	0-0.5	40.296998	-104.744841	1.004599	0.1
AST02@0-6"	4/10/2025	0-0.5	40.296995	-104.744891	1.102086	0.0
AST03@0-6"	4/10/2025	0-0.5	40.296995	-104.744940	1.103208	0.1
PWV01@5'	4/10/2025	5	40.296905	-104.744679	1.178602	0.4
PWV02@5'	4/10/2025	5	40.296921	-104.744700	0.912272	0.1
PWV03@5'	4/10/2025	5	40.296941	-104.744724	0.912978	0.6
PWV04@5'	4/10/2025	5	40.296961	-104.744760	0.901755	0.8
PWV-N1@4'	4/10/2025	4	40.296976	-104.744739	0.883230	0.00
PWV-N2@4'	4/10/2025	4	40.296945	-104.744679	0.879019	0.2
PWV-S1@4'	4/10/2025	4	40.296921	-104.744779	0.882401	0.5
PWV-S2@4'	4/10/2025	4	40.296886	-104.744692	0.880033	0.0
PWV-E@4'	4/10/2025	4	40.296907	-104.744658	0.950735	0.3
PWV-W@4'	4/10/2025	4	40.296961	-104.744779	0.862692	0.1
PWV05@5'	4/10/2025	5	40.297005	-104.744798	0.863815	2.1
PWV05-N@4'	4/10/2025	4	40.297021	-104.744789	0.864818	1.6
PWV05-E@4'	4/10/2025	4	40.297004	-104.744762	0.893439	2.5
PWV05-S@4'	4/10/2025	4	40.296982	-104.744805	0.894579	1.2
PWV05-W@4'	4/10/2025	4	40.297009	-104.744819	0.896531	1.1
BKG01@0-6"	4/10/2025	0-0.5	40.296708	-104.745743	0.864080	0.0
BKG01@3'	4/10/2025	3	40.296708	-104.745743	0.864080	0.0
BKG01@4.5'	4/10/2025	4.5	40.296708	-104.745743	0.864080	0.0
BKG02@0-6"	4/10/2025	0-0.5	40.296586	-104.745618	0.920057	0.0
BKG02@3'	4/10/2025	3	40.296586	-104.745618	0.920057	0.0
BKG02@4.5'	4/10/2025	4.5	40.296586	-104.745618	0.920057	0.0
BKG03@0-6"	4/10/2025	0-0.5	40.296462	-104.745451	0.864525	0.0
BKG03@3'	4/10/2025	3	40.296462	-104.745451	0.864525	0.0
BKG03@4.5'	4/10/2025	4.5	40.296462	-104.745451	0.864525	0.0

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum (NAD) 83 UTMZone 13 North.

2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).

PDOP = Position Dilution of Precision

ppm = Parts per million

ft = Feet

TABLE 2
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE 100322
MOSIER K23-21D, WELD COUNTY, COLORADO
REM # 39049

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4- Trimethyl- Benzene (mg/kg)	1,3,5- Trimethyl- Benzene (mg/kg)	Naphthalene (mg/kg)	TPH (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500**		
SEP01-DL@3'	4/10/2025	3	0.69	28	2.4	86	16	16	0.21	2680	2400	280	<50
SEP02-DL@3'	4/10/2025	3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<100.50	<0.50	<50	<50
SEP03-DL@3'	4/10/2025	3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<100.50	<0.50	<50	<50
SEP04-DL@3'	4/10/2025	3	<0.0020	0.015	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<100.50	<0.50	<50	<50
AST01@0-6"	4/10/2025	0-0.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<100.50	<0.50	<50	<50
AST02@0-6"	4/10/2025	0-0.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<100.50	<0.50	<50	<50
AST03@0-6"	4/10/2025	0-0.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<100.50	<0.50	<50	<50
PWV01@5'	4/10/2025	5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<100.50	<0.50	<50	<50
PWV02@5'	4/10/2025	5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<100.50	<0.50	<50	<50
PWV03@5'	4/10/2025	5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<100.50	<0.50	<50	<50
PWV04@5'	4/10/2025	5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<100.50	<0.50	<50	<50
PWV-S1@4'	4/10/2025	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<100.50	<0.50	<50	<50
PWV05@5'	4/10/2025	5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<100.50	<0.50	<50	<50
PWV05-E@4'	4/10/2025	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<100.50	<0.50	<50	<50

1. Bold values exceed the ECMC Table 915-1 limit(s)
 2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
 3. * Indicates laboratory minimum detection limit in excess of SSL
 4. ** Summation of GRO+DRO+ORO must be less than 500 mg/kg
- (<) = Analytical result is less than the indicated laboratory reporting limit.
TPH-GRO = Total petroleum hydrocarbons - gasoline range organics
TPH-DRO = Total petroleum hydrocarbons - diesel range organics
TPH-ORO = Total petroleum hydrocarbons - oil range organics
mg/kg = Milligrams per kilogram
ft = Feet
AP = Analysis pending

TABLE 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE 100322
MOSIER K23-21D, WELD COUNTY, COLORADO
REM # 39049

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3- cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
SEP01-DL@3'	4/10/2025	3	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0112	<0.00500	<0.00500	0.237	0.400
SEP02-DL@3'	4/10/2025	3	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP03-DL@3'	4/10/2025	3	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP04-DL@3'	4/10/2025	3	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
AST01@0-6"	4/10/2025	0-0.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
AST02@0-6"	4/10/2025	0-0.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
AST03@0-6"	4/10/2025	0-0.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
PWV01@5'	4/10/2025	5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
PWV02@5'	4/10/2025	5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
PWV03@5'	4/10/2025	5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
PWV04@5'	4/10/2025	5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
PWV-S1@4'	4/10/2025	4	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
PWV05@5'	4/10/2025	5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
PWV05-E@4'	4/10/2025	4	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

1. Bold values exceed the ECMC Table 915-1 limit(s)

2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

3. * Indicates laboratory minimum detection limit in excess of SSL

4. ** Summation of GRO+DRO+ORO must be less than 500 mg/kg

(<) = Analytical result is less than the indicated laboratory reporting limit.

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-ORO = Total petroleum hydrocarbons - oil range organics

mg/kg = Milligrams per kilogram

ft = Feet

AP = Analysis pending

TABLE 4
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE 100322
MOSIER K23-21D, WELD COUNTY, COLORADO
REM # 39049

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
SEP01-DL@3'	4/10/2025	3	7.74	0.158	0.281	<2.00
SEP02-DL@3'	4/10/2025	3	7.97	0.242	0.331	<2.00
SEP03-DL@3'	4/10/2025	3	7.82	0.204	0.140	<2.00
SEP04-DL@3'	4/10/2025	3	8.21	0.153	0.0444	<2.00
AST01@0-6"	4/10/2025	0-0.5	8.41	0.217	0.322	<2.00
AST02@0-6"	4/10/2025	0-0.5	8.09	0.266	0.231	<2.00
AST03@0-6"	4/10/2025	0-0.5	8.19	0.235	0.317	<2.00
PWV01@5'	4/10/2025	5	8.20	0.236	0.234	<2.00
PWV02@5'	4/10/2025	5	8.01	0.366	0.911	<2.00
PWV03@5'	4/10/2025	5	8.07	0.399	0.982	<2.00
PWV04@5'	4/10/2025	5	8.27	0.193	0.402	<2.00
PWV-S1@4'	4/10/2025	4	7.94	0.206	0.146	<2.00
PWV05@5'	4/10/2025	5	8.14	0.238	0.207	<2.00
PWV05-E@4'	4/10/2025	4	8.24	0.225	0.379	<2.00
BKG01@0-6"	4/10/2025	0-0.5	7.91	1.240	3.75	<2.00
BKG01@3'	4/10/2025	3	8.40	0.525	2.54	<2.00
BKG01@4.5'	4/10/2025	4.5	8.27	0.486	3.20	<2.00
BKG02@0-6"	4/10/2025	0-0.5	7.52	1.360	3.50	<2.00
BKG02@3'	4/10/2025	3	8.30	0.439	1.88	<2.00
BKG02@4.5'	4/10/2025	4.5	8.14	0.489	2.60	<2.00
BKG03@0-6"	4/10/2025	0-0.5	8.26	0.268	0.730	<2.00
BKG03@3'	4/10/2025	3	8.30	0.253	0.660	<2.00
BKG03@4.5'	4/10/2025	4.5	8.39	0.481	2.59	<2.00
Maximum Background Concentration at 0-0.5 feet			8.26	1.360	3.75	NA
Maximum Background Concentration at 3 feet			8.40	0.525	2.54	NA
Maximum Background Concentration at 4.5 feet			8.39	0.489	3.20	NA

1. **Bold** faced values exceed the ECMC Table 915-1 limit(s), but are within background concentrations.

2. **Bold** faced values exceed the ECMC Table 915-1 limit(s) and native background concentrations.

3. **Brown highlighted soil analytical values indicate a regulatory exceedance.**

AP = Analysis pending

NA = Not analyzed

TABLE 5
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE 100322
MOSIER K23-21D, WELD COUNTY, COLORADO
REM # 39049

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
SEP01-DL@3'	4/10/2025	3	0.599	92.8	0.200	<0.30*	2.01	7.40	1.48	<0.260	0.0267	7.40
SEP02-DL@3'	4/10/2025	3	0.598	97.8	0.237	<0.30*	2.15	10.0	1.67	<0.260	0.0612	8.54
SEP03-DL@3'	4/10/2025	3	0.656	106	0.294	<0.30*	2.65	11.9	1.92	<0.260	0.0933	10.9
SEP04-DL@3'	4/10/2025	3	2.15	70.9	0.237	<0.30*	2.53	8.08	2.72	0.299	0.0376	11.5
AST01@0-6"	4/10/2025	0-0.5	0.616	93.6	0.295	<0.30*	3.05	11.6	1.72	<0.260	0.110	12.4
AST02@0-6"	4/10/2025	0-0.5	0.711	92.8	<0.200	<0.30*	2.30	9.15	1.59	<0.260	0.0681	9.09
AST03@0-6"	4/10/2025	0-0.5	0.651	191	0.320	<0.30*	4.21	11.6	1.89	0.336	0.0923	13.5
PWV01@5'	4/10/2025	5	0.607	91.2	<0.200	<0.30*	2.19	9.24	1.69	<0.260	0.0734	9.04
PWV02@5'	4/10/2025	5	0.585	91.2	0.224	<0.30*	2.18	9.52	1.65	<0.260	0.0543	8.97
PWV03@5'	4/10/2025	5	0.676	87.9	<0.200	<0.30*	2.12	8.53	1.86	<0.260	0.0482	8.77
PWV04@5'	4/10/2025	5	0.654	105	<0.200	<0.30*	1.87	7.26	1.73	<0.260	0.0421	8.32
PWV-S1@4'	4/10/2025	4	0.470	93.3	0.221	<0.30*	1.95	9.93	1.45	<0.260	0.0437	7.35
PWV05@5'	4/10/2025	5	0.591	88.1	0.220	<0.30*	2.68	8.90	1.64	<0.260	0.0694	11.2
PWV05-E@4'	4/10/2025	4	0.700	94.5	<0.200	<0.30*	2.12	8.32	1.79	<0.260	0.0394	9.37
BKG01@0-6"	4/10/2025	0-0.5	0.602	101	0.319	<0.30*	3.15	12.6	1.84	<0.260	0.104	14.4
BKG01@3'	4/10/2025	3	1.24	162	0.250	<0.30*	2.55	6.57	2.57	<0.260	0.0402	7.18
BKG01@4.5'	4/10/2025	4.5	0.724	79.2	<0.200	<0.30*	1.84	6.50	1.95	<0.260	<0.0200	6.34
BKG02@0-6"	4/10/2025	0-0.5	0.587	95.0	0.263	<0.30*	3.13	10.7	1.79	<0.260	0.0827	16.0
BKG02@3'	4/10/2025	3	1.06	122	<0.200	<0.30*	1.94	7.21	2.42	<0.260	0.0327	7.33
BKG02@4.5'	4/10/2025	4.5	3.11	127	0.302	<0.30*	4.94	7.35	5.98	<0.260	0.0397	18.9
BKG03@0-6"	4/10/2025	0-0.5	2.05	80.2	0.351	<0.30*	9.04	9.68	4.62	<0.260	0.0685	47.2
BKG03@3'	4/10/2025	3	1.64	52.6	<0.200	<0.30*	3.84	4.95	3.86	<0.260	0.0264	16.8
BKG03@4.5'	4/10/2025	4.5	3.00	93.6	0.257	<0.30*	5.21	6.75	5.49	<0.260	0.0323	18.5
1.25x Maximum Background Concentration at 0-0.5 feet			2.56	126	0.439	NA	11.3	15.8	5.78	NA	0.130	59.0
1.25x Maximum Background Concentration at 3 feet			2.05	203	0.313	NA	4.80	9.01	4.83	NA	0.050	21.0
1.25x Maximum Background Concentration at 4.5 feet			3.89	159	0.378	NA	6.51	9.19	7.48	NA	0.050	23.6

1. Bold faced values exceed the ECMC Table 915-1 limit(s), but are within 1.25x background concentrations.
 2. Bold faced values exceed the ECMC Table 915-1 limit(s) and native background concentrations.
 3. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL).
 4. Non-detect background results accounted for in the highest background concentration by using the reporting limit.
- ECMC = Energy & Carbon Management Commission
(<) = Analytical result is less than the indicated laboratory reporting limit.
mg/kg = Milligrams per kilogram
ft = Feet
* Indicates laboratory minimum detection limit in excess of SSL
AP = Analysis pending
NA = Not analyzed



CDH Consulting, LLC
Thornton, Colorado
720.431.7468
www.CDHConsult.com

PHOTOGRAPHIC LOG

Photographic Log
MOSIER K23-21D – REM # 39049
Noble Energy Inc.
4/10/2025

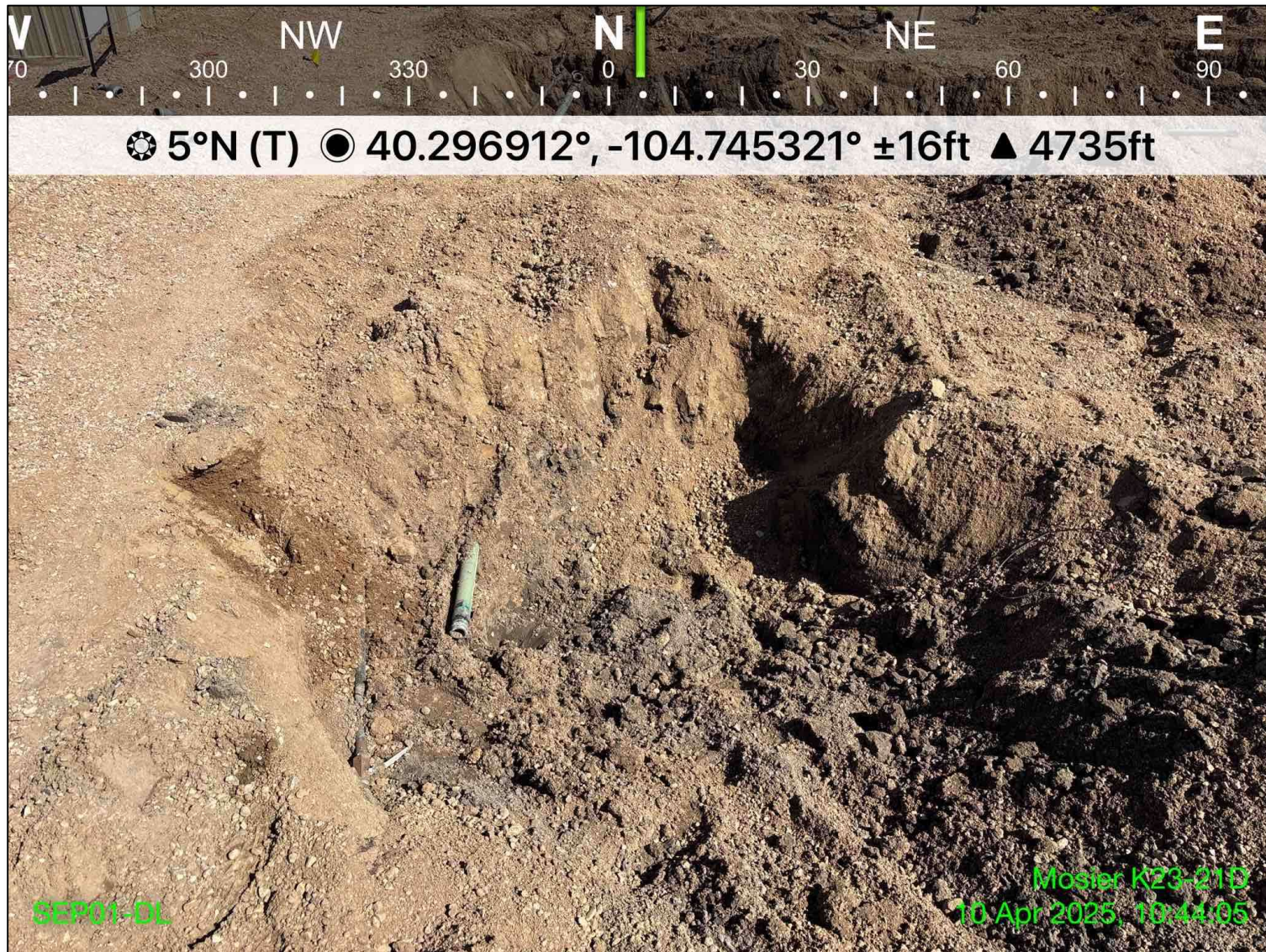


Photo 1: View of soil sample location SEP01-DL, facing north

Photographic Log
MOSIER K23-21D – REM # 39049
Noble Energy Inc.
4/10/2025



Photo 2: View of soil sample location SEP02-DL, facing north

Photographic Log
MOSIER K23-21D – REM # 39049
Noble Energy Inc.
4/10/2025

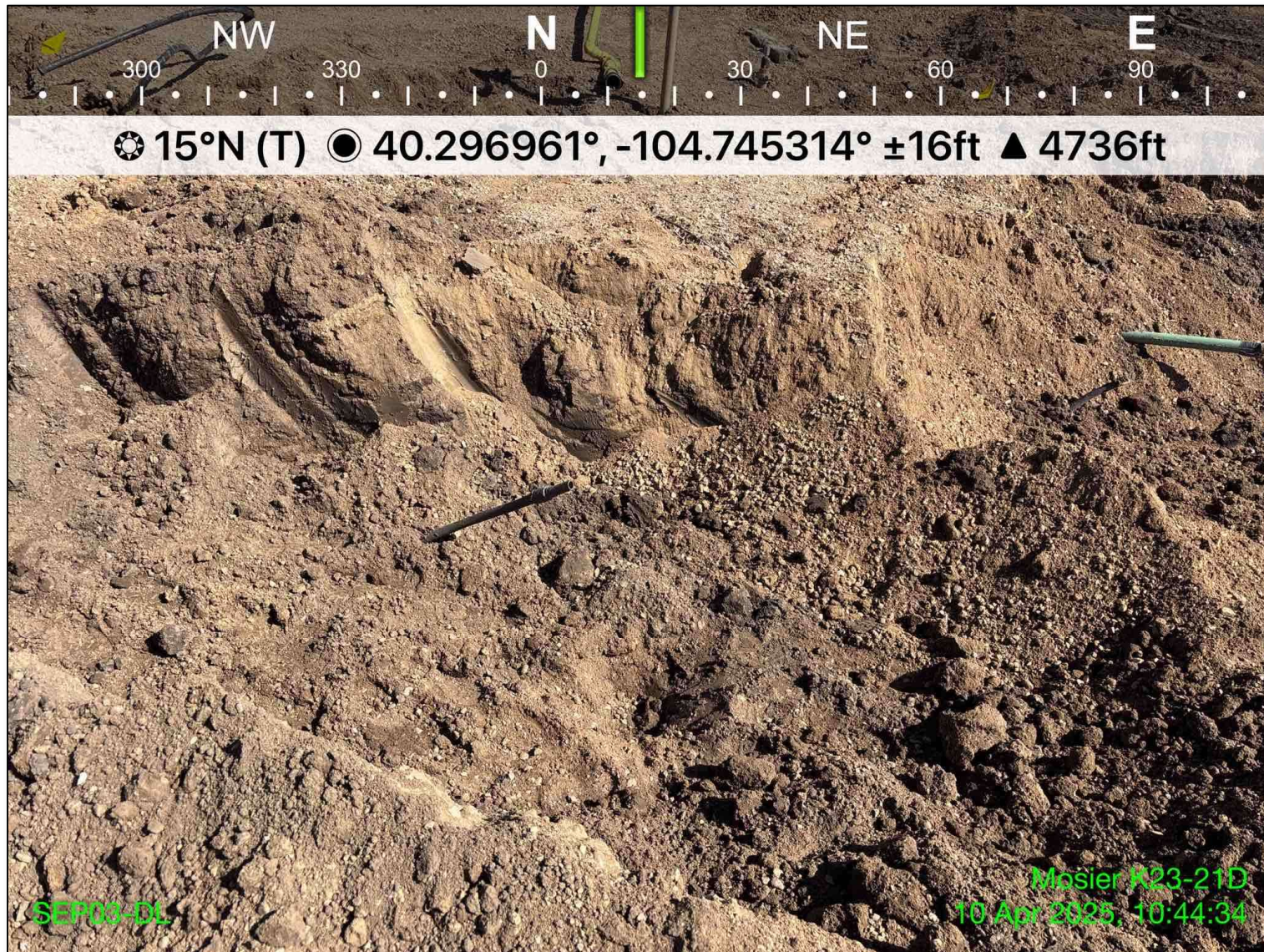


Photo 3: View of soil sample location SEP03-DL, facing north

Photographic Log
MOSIER K23-21D – REM # 39049
Noble Energy Inc.
4/10/2025



Photo 4: View of soil sample location SEP04-DL, facing north

Photographic Log
MOSIER K23-21D – REM # 39049
Noble Energy Inc.
4/10/2025

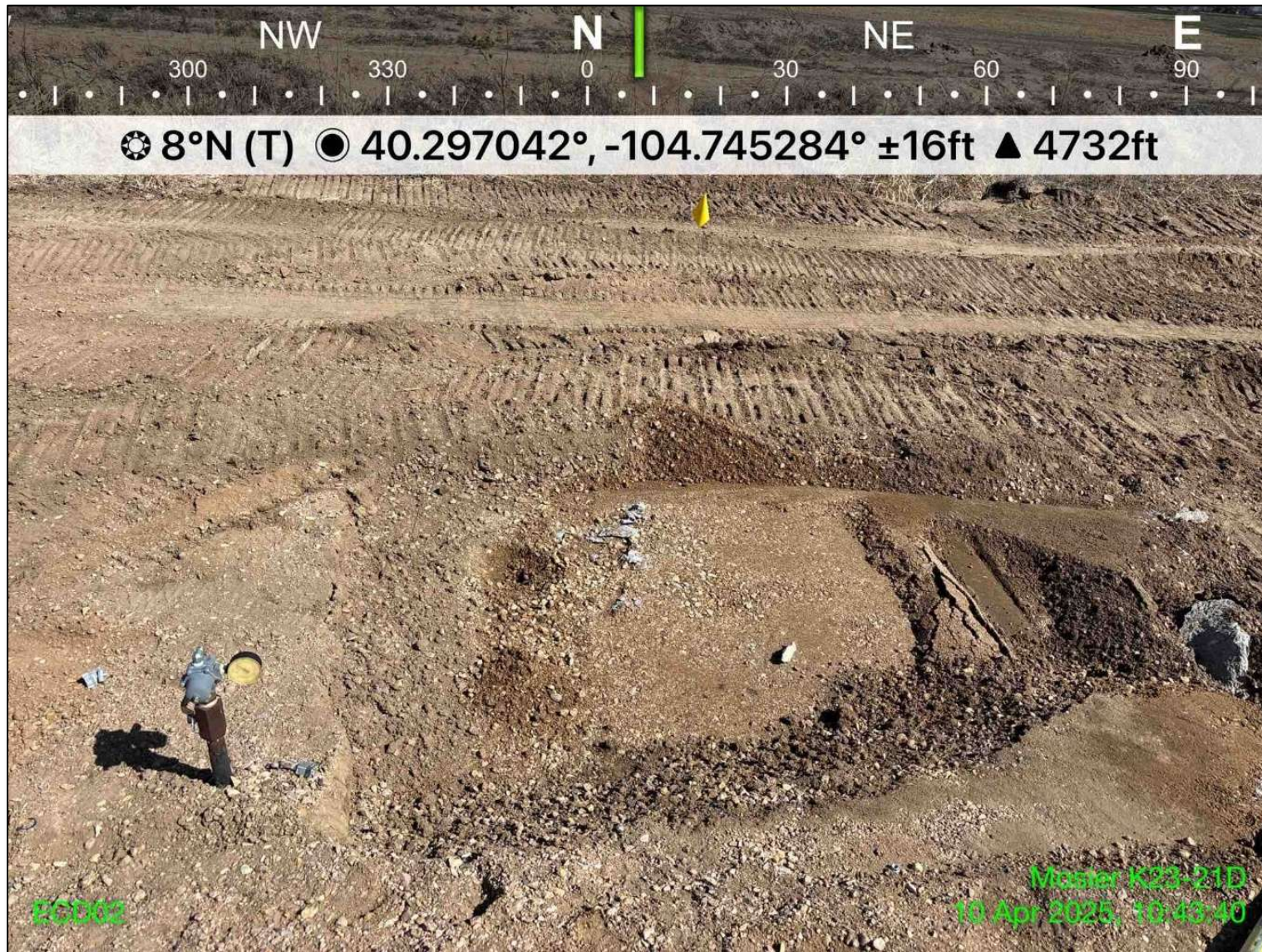


Photo 5: View of screening location ECD02, facing north

Photographic Log
MOSIER K23-21D – REM # 39049
Noble Energy Inc.
4/10/2025



Photo 6: View of PWV excavation, facing southwest

Photographic Log
MOSIER K23-21D – REM # 39049
Noble Energy Inc.
4/10/2025



Photo 7: View of PWV05 excavation, facing east

Photographic Log
MOSIER K23-21D – REM # 39049
Noble Energy Inc.
4/10/2025



Photo 8: View of soil sample location AST01, facing south

Photographic Log
MOSIER K23-21D – REM # 39049
Noble Energy Inc.
4/10/2025

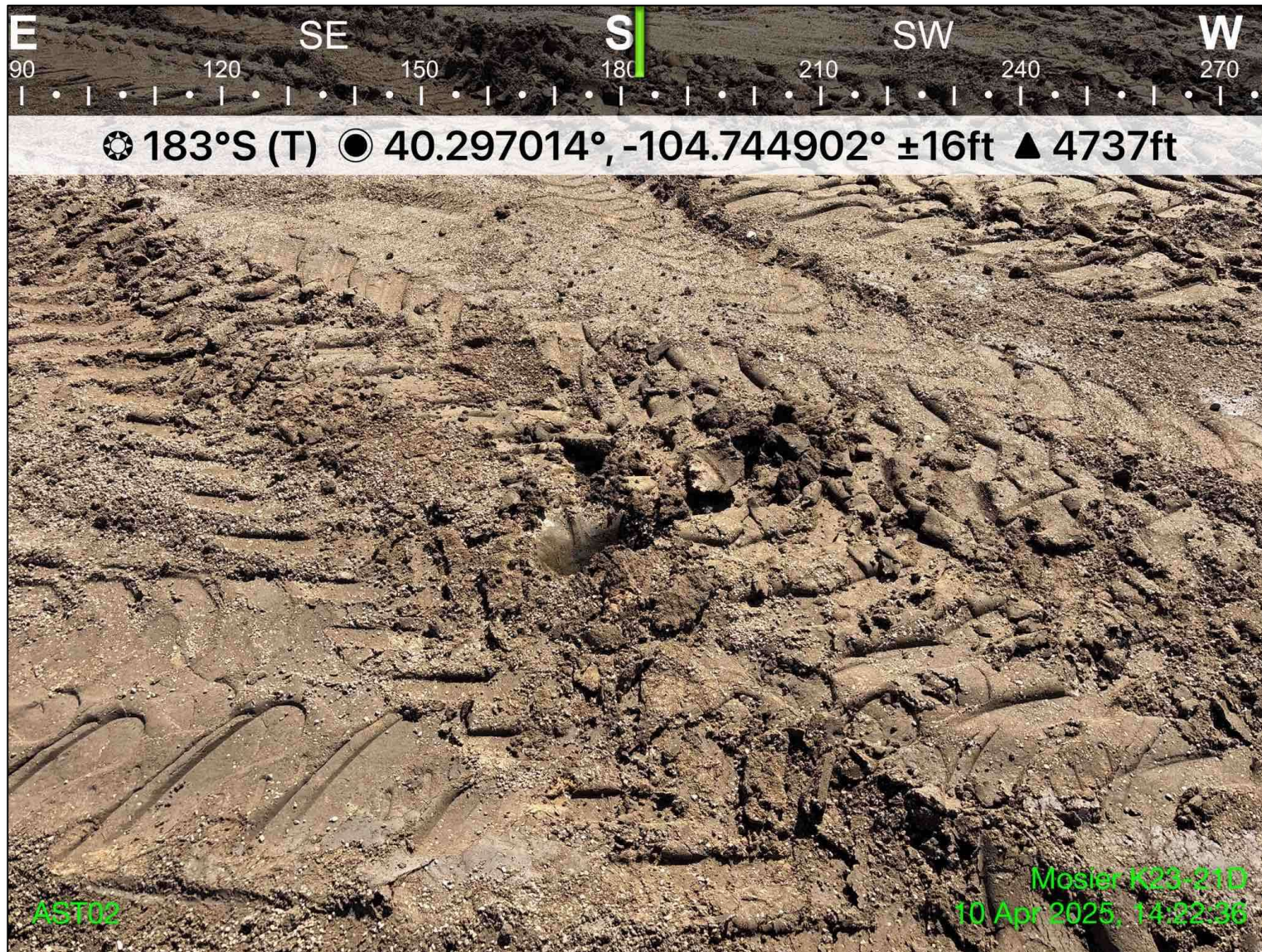


Photo 9: View of soil sample location AST02, facing south

Photographic Log
MOSIER K23-21D – REM # 39049
Noble Energy Inc.
4/10/2025

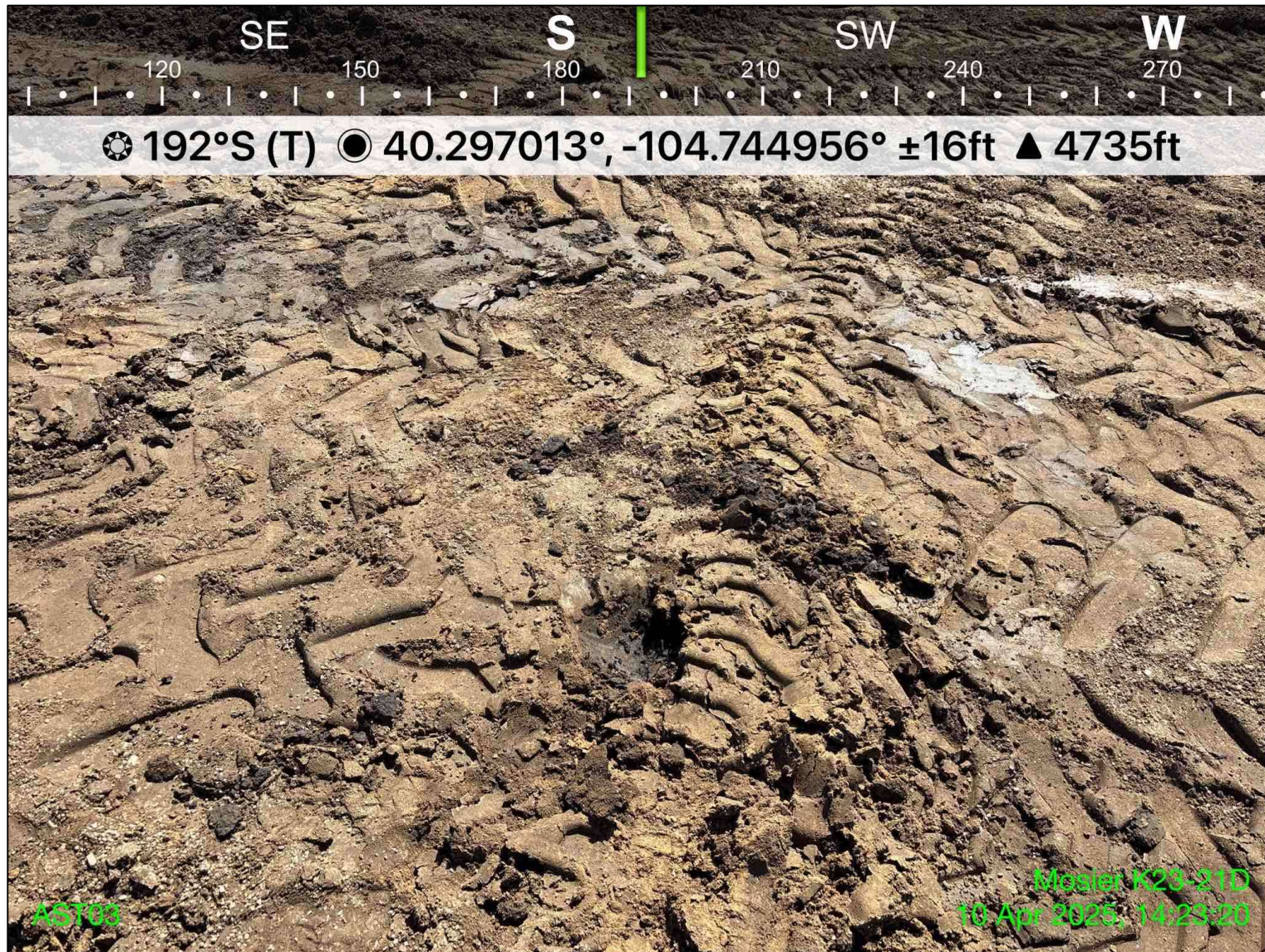


Photo 10: View of soil sample location AST03, facing south

Photographic Log
MOSIER K23-21D – REM # 39049
Noble Energy Inc.
4/10/2025

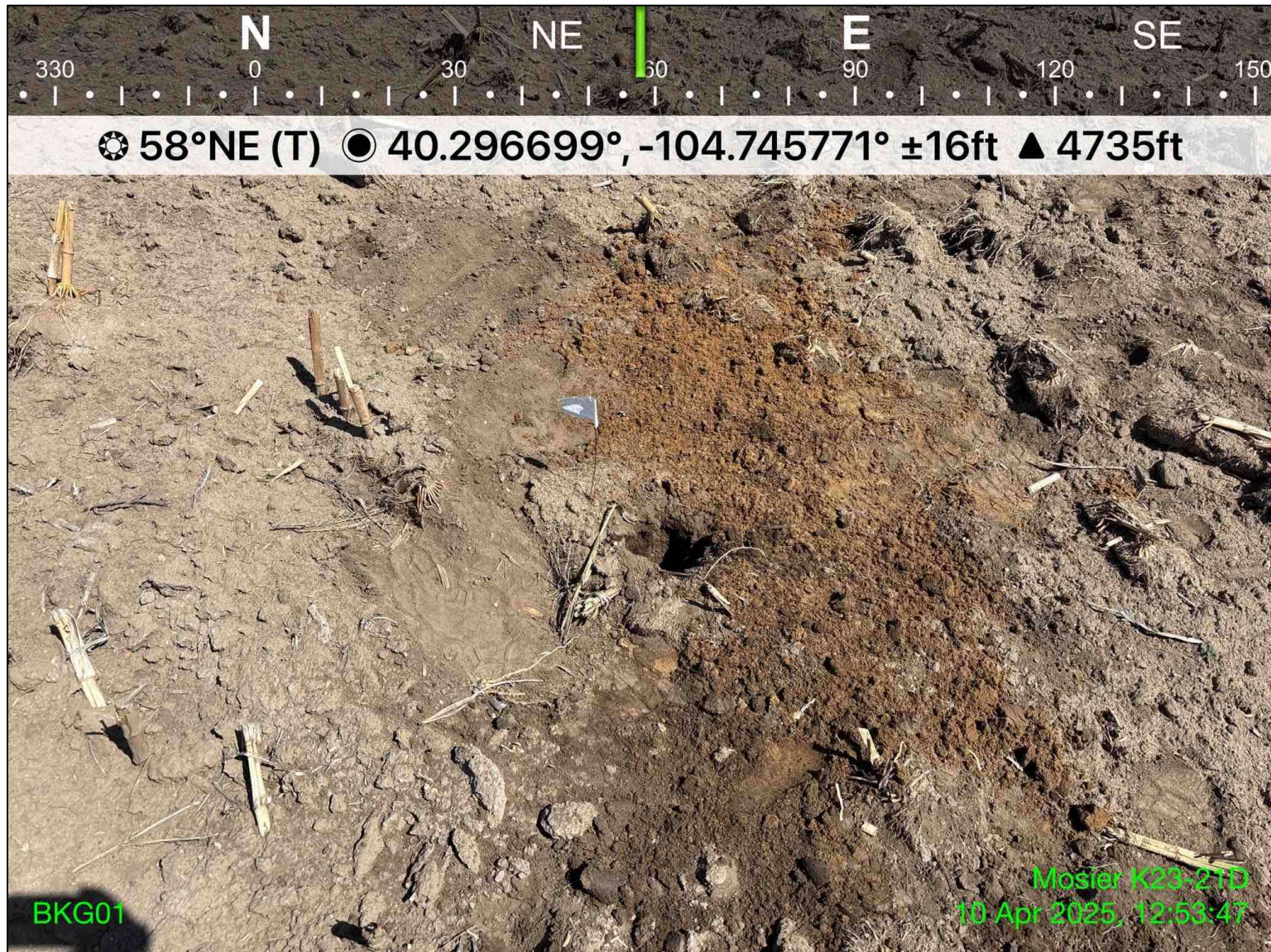


Photo 11: View of background soil sample location BKG01, facing northeast

Photographic Log
MOSIER K23-21D – REM # 39049
Noble Energy Inc.
4/10/2025

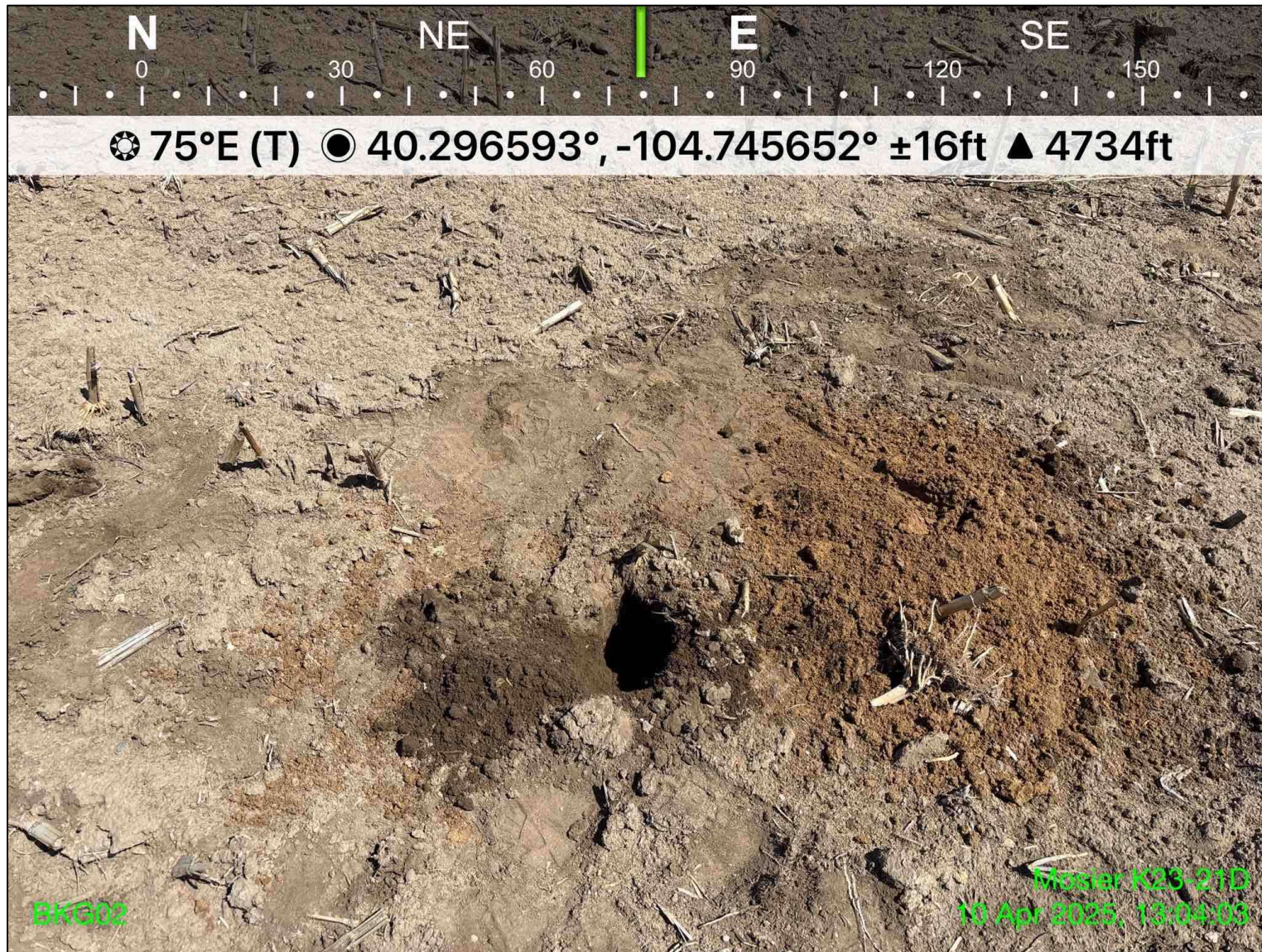


Photo 12: View of background soil sample location BKG02, facing northeast

Photographic Log
MOSIER K23-21D – REM # 39049
Noble Energy Inc.
4/10/2025



Photo 13: View of background soil sample location BKG03, facing east