



CDH Consulting, LLC
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Wellhead Closure Investigation and Environmental Summary

WELLS RANCH USX AA11-25 Wellhead

ECMC Remediation Project #42447

Weld County, Colorado

Attachments:

Field Form

Boring Logs

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

Wellhead Closure Checklist

RBU Checklist



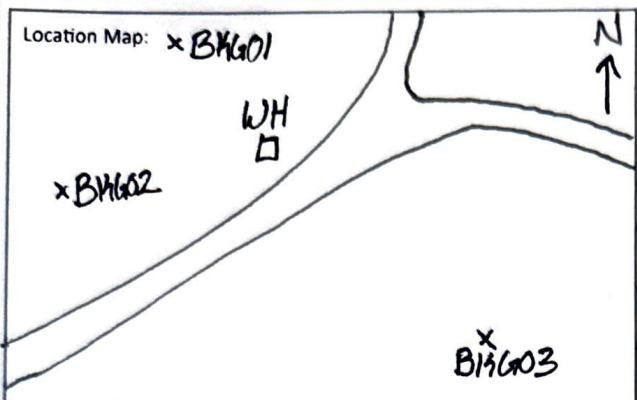
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FIELD FORM



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BORING LOGS



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: BKG01	Project: Wells Ranch USX AA11-25
Date: 12/4/25	Client: Chevron
Logged By: SHG	Drilled By: CDH

Elevation:	Detector:	Drilling Method: Hand Auger	Sampling Method: Continuous
Gravel Pack: N/A	Seal: N/A	Grout: N/A	
Casing Type: N/A	Diameter: N/A	Length: N/A	Hole Diameter: 3.25"
Screen Type: N/A	Slot: N/A	Diameter: N/A	Length: N/A

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
	Dry		NO		0		SM	0-1.5' SM, Silty soil, dry, very poorly graded	
					1		↓		
					2		SP	1.5'-3.5' SP, sandy soil, fine grained, poorly graded, dry, compacted	
					3		↓		
				BKG01	4		↓		
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15				

Location Map:

x BM601

BM602
x

□
WH

BM603
x



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: **BM602** Project: **Wells Ranch USX A11-25**

Date: **12/4/25** Client: **Chevron**

Logged By: **SHG** Drilled By: **CDH**

Elevation: _____ Detector: _____ Drilling Method: **Hand Auger** Sampling Method: **Continuous**

Gravel Pack: **N/A** Seal: **N/A** Grout: **N/A**

Casing Type: **N/A** Diameter: **N/A** Length: **N/A** Hole Diameter: **3.25"** Depth to Liquid: _____

Screen Type: **N/A** Slot: **N/A** Diameter: **N/A** Length: **N/A** Total Depth: _____ Depth to Water: _____

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
	Dry		No		0		SP	0-3.5'	
	↓		↓		1		↓	SP, sandy soil, fine grained	
					2			poorly graded, dry,	
					3			lightly compacted	
				BM602	4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15				

Location Map:

x BH601

x BH602

WH
□



BH603
x



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: BH603	Project: Wells Ranch USX AA11-25
Date: 12/4/25	Client: Chevron
Logged By: SHG	Drilled By: CDH

Elevation:	Detector:	Drilling Method: Hand Auger	Sampling Method: Continuous
Gravel Pack: N/A	Seal: N/A	Grout: N/A	
Casing Type: N/A	Diameter: N/A	Length: N/A	Hole Diameter: 3.25" Depth to Liquid:
Screen Type: N/A	Slot: N/A	Diameter: N/A	Length: N/A Total Depth: Depth to Water:

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
	Dry		NO		0		SP	0-3.5' SP, sandy soil, fine grained, poorly graded, dry, lightly compacted	
					1				
					2				
					3				
				BH603	4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15				



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FIGURES

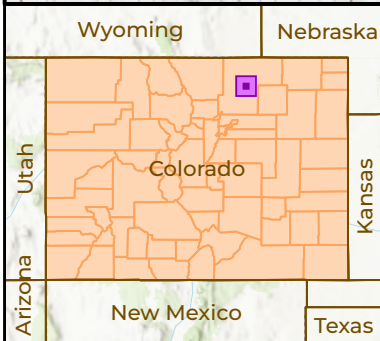
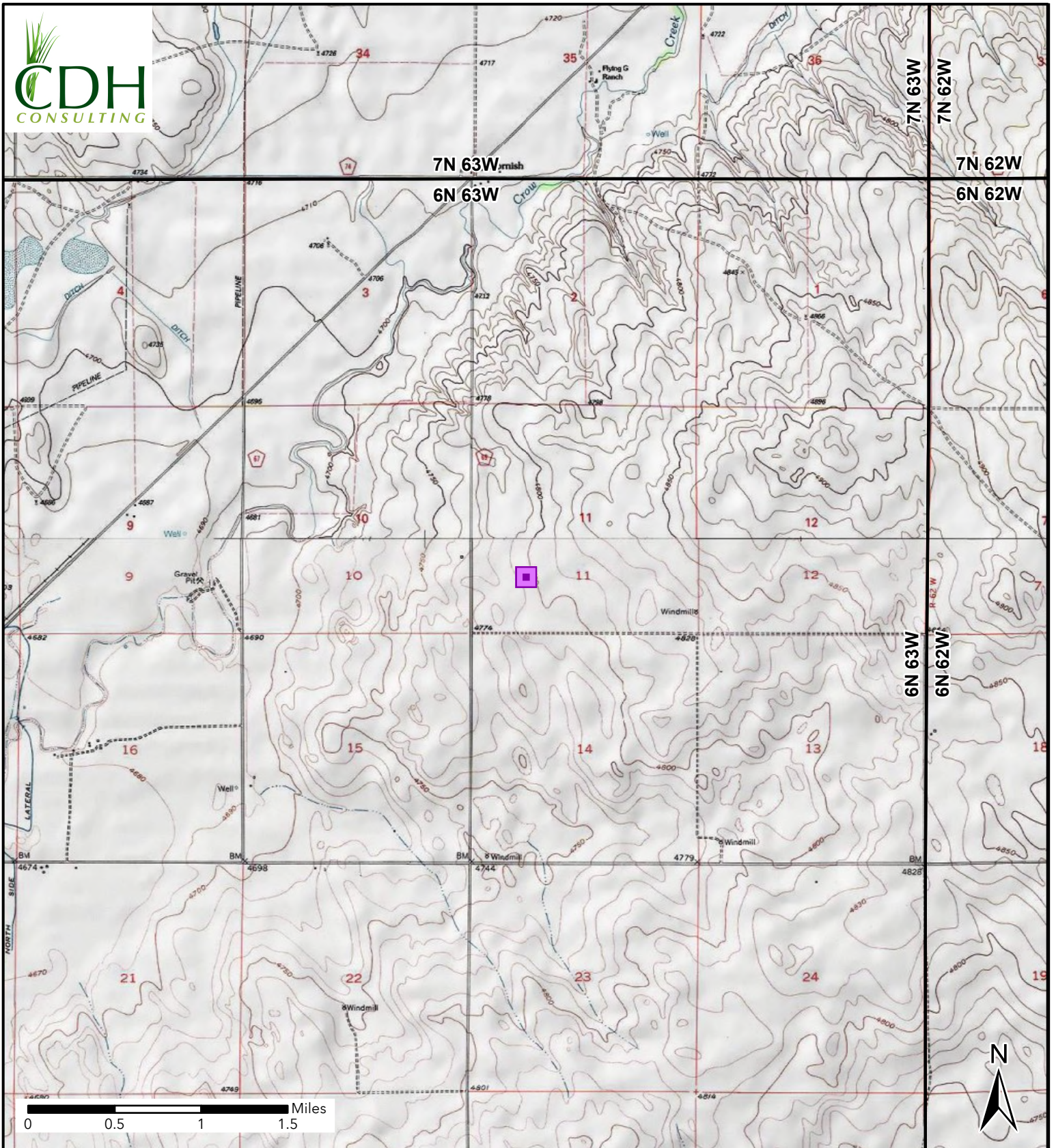



Figure 1
Site Location Map
WELLS RANCH USX AA 11-25
NWSW-SEC 11-T6N-R63W
Weld County, Colorado
Noble Energy Inc

 Site Location



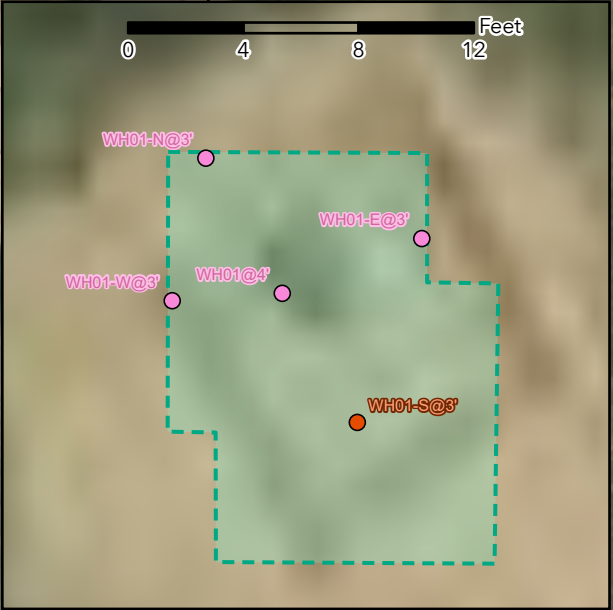
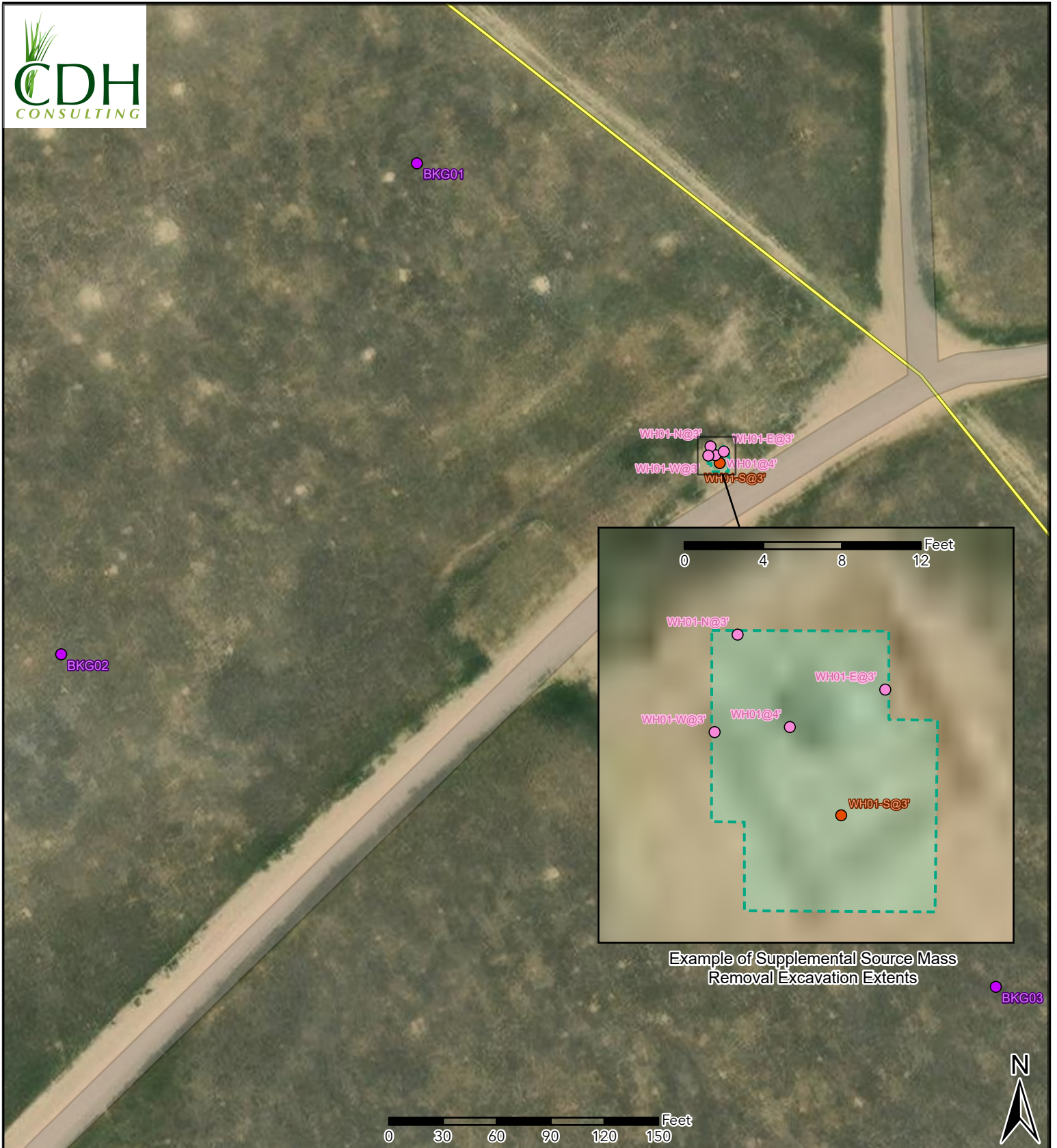
WH01-S@3'
 Date: 12/4/2025
 Benzo (a) Anthracene: **0.0224** mg/kg

NOTE:
 XXXX@X = Sample Name @ Depth in Feet
BOLD - Above ECMC Table 915-1 Standards
 "mg/kg" = milligrams per kilogram



Figure 2
Soil Sample and Field Screening Locations Map
WELLS RANCH USX AA 11-25
 NWSW-SEC 11-T6N-R63W
 Weld County, Colorado
 Noble Energy Inc

- Screening Point (CDH)
- Soil Sample (CDH)
- Background Sample
Collected on 12/4/25 by CDH
- Flowline Abandoned In Place



Example of Supplemental Source Mass Removal Excavation Extents

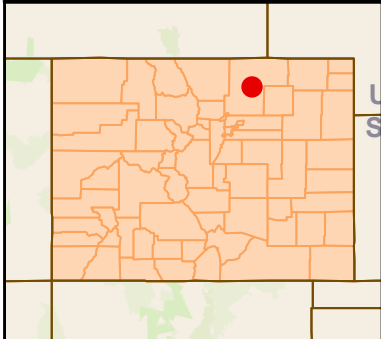


Figure 3
Supplemental Source Mass Removal Map
WELLS RANCH USX AA 11-25
 NWSW-SEC 11-T6N-R63W
 Weld County, Colorado
 Noble Energy Inc

- Background Sample Collected on 12/4/25 by CDH
- Screening Point (CDH)
- Soil Sample (CDH)
- Flowline Abandoned In Place
- Proposed Excavation



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TABLES

**TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE 100322
WELLS RANCH USX AA11-25, WELD COUNTY, COLORADO
REM # 42447**

Sample ID	Sample Date	Depth (ft)	GPS Data		PDOP Value	VOC Concentration (ppm)	Consultant Who Collected Samples
			Latitude/Longitude				
WH01@4'	12/4/2025	4	40.497550	-104.408631	1.000000	0.0	CDH
WH01-N@3'	12/4/2025	3	40.497563	-104.408641	0.900000	0.0	CDH
WH01-S@3'	12/4/2025	3	40.497538	-104.408622	0.900000	0.6	CDH
WH01-E@3'	12/4/2025	3	40.497555	-104.408614	0.900000	0.2	CDH
WH01-W@3'	12/4/2025	3	40.497550	-104.408645	0.900000	0.0	CDH
BKG01@3.5'	12/4/2025	3.5	40.497993	-104.409215	0.869626	0.0	CDH
BKG02@3.5'	12/4/2025	3.5	40.497245	-104.409934	0.849111	0.0	CDH
BKG03@3.5'	12/4/2025	3.5	40.496727	-104.408066	0.833022	0.0	CDH

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
WELLS RANCH USX AA11-25, WELD COUNTY, COLORADO
REM # 42447

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**		
WH01-S@3'	12/4/2025	3	<0.0011	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	15.75	<0.22	5.80	9.95

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
 5. Samples are reported as dry weight unless otherwise indicated in the laboratory PDF report(s).
- (<) = 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

TABLE 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE 100322
WELLS RANCH USX AA11-25, WELD COUNTY, COLORADO
REM # 42447

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
WH01-S@3'	12/4/2025	3	<0.0044	0.0049	0.0224	0.0193	0.0260	0.0077	0.0197	0.0048	0.0477	<0.0044	0.0114	0.0393	<0.0044	<0.0044

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. Samples are reported as dry weight unless otherwise indicated in the laboratory PDF report(s).
- (<) = Analytical result is less than the indicated laboratory reporting limit.
mg/kg = Milligrams per kilogram
ft = Feet

TABLE 4
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE 100322
WELLS RANCH USX AA11-25, WELD COUNTY, COLORADO
REM # 42447

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
WH01-S@3'	12/4/2025	3	7.85	0.57	0.207	<0.25
BKG01@3.5'	12/4/2025	3.5	8.16	0.24	0.243	<0.25
BKG02@3.5'	12/4/2025	3.5	8.11	0.47	0.944	0.301
BKG03@3.5'	12/4/2025	3.5	7.88	0.82	1.16	0.374
Maximum Background Concentration			8.16	0.82	1.16	0.374

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.

4. Samples are reported as dry weight unless otherwise indicated in the laboratory PDF report(s).

ft = Feet

EC = Electrical Conductivity

SAR = Sodium adsorption ratio

mmhos/cm = millimhos per centimeter

mg/L = milligrams per liter

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

TABLE 5
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE 100322
WELLS RANCH USX AA11-25, WELD COUNTY, COLORADO
REM # 42447

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
WH01-S@3'	12/4/2025	3	3.0	65.6	0.14	<0.45*	5.9	8.1	4.4	<0.20	<0.098	18.4
BKG01@3.5'	12/4/2025	3.5	2.3	79.7	<0.095	<0.42*	4.4	5.2	3.4	<0.19	<0.095	13.3
BKG02@3.5'	12/4/2025	3.5	5.2	122	0.30	<0.44*	17.5	19.5	11.9	0.31	<0.10	58.2
BKG03@3.5'	12/4/2025	3.5	5.0	119	0.27	<0.47*	17.9	17.6	11.2	0.26	<0.10	51.8
1.25x Maximum Background Concentration			6.5	153	0.38	NA	22.4	24.4	14.9	0.39	NA	72.8

- Bold** faced values exceed the ECMC Table 915-1 limit(s), but are within 1.25x background concentrations.
 - Red** faced values exceed the ECMC Table 915-1 limit(s) and native background concentrations.
 - Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL).
 - Non-detect background results accounted for in the highest background concentration by using the reporting limit.
 - Samples are reported as dry weight unless otherwise indicated in the laboratory PDF report(s).
- (<) = 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
NA = Not analyzed



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PHOTOGRAPHIC LOG

Photographic Log

WELLS RANCH USX AA11-25 (REM #42447)

Noble Energy, Inc.

12/04/2025



Photo 1: View of wellhead excavation extent, facing west-northwest

Photographic Log

WELLS RANCH USX AA11-25 (REM #42447)

Noble Energy, Inc.

12/04/2025



Photo 2: View of wellhead excavation extent, facing southeast

Photographic Log

WELLS RANCH USX AA11-25 (REM #42447)

Noble Energy, Inc.

12/04/2025



Photo 3: View of excavation extent, facing east-northeast

Photographic Log

WELLS RANCH USX AA11-25 (REM #42447)

Noble Energy, Inc.

12/04/2025



Photo 4: View of excavation extent, facing north

Photographic Log

WELLS RANCH USX AA11-25 (REM #42447)

Noble Energy, Inc.

12/04/2025

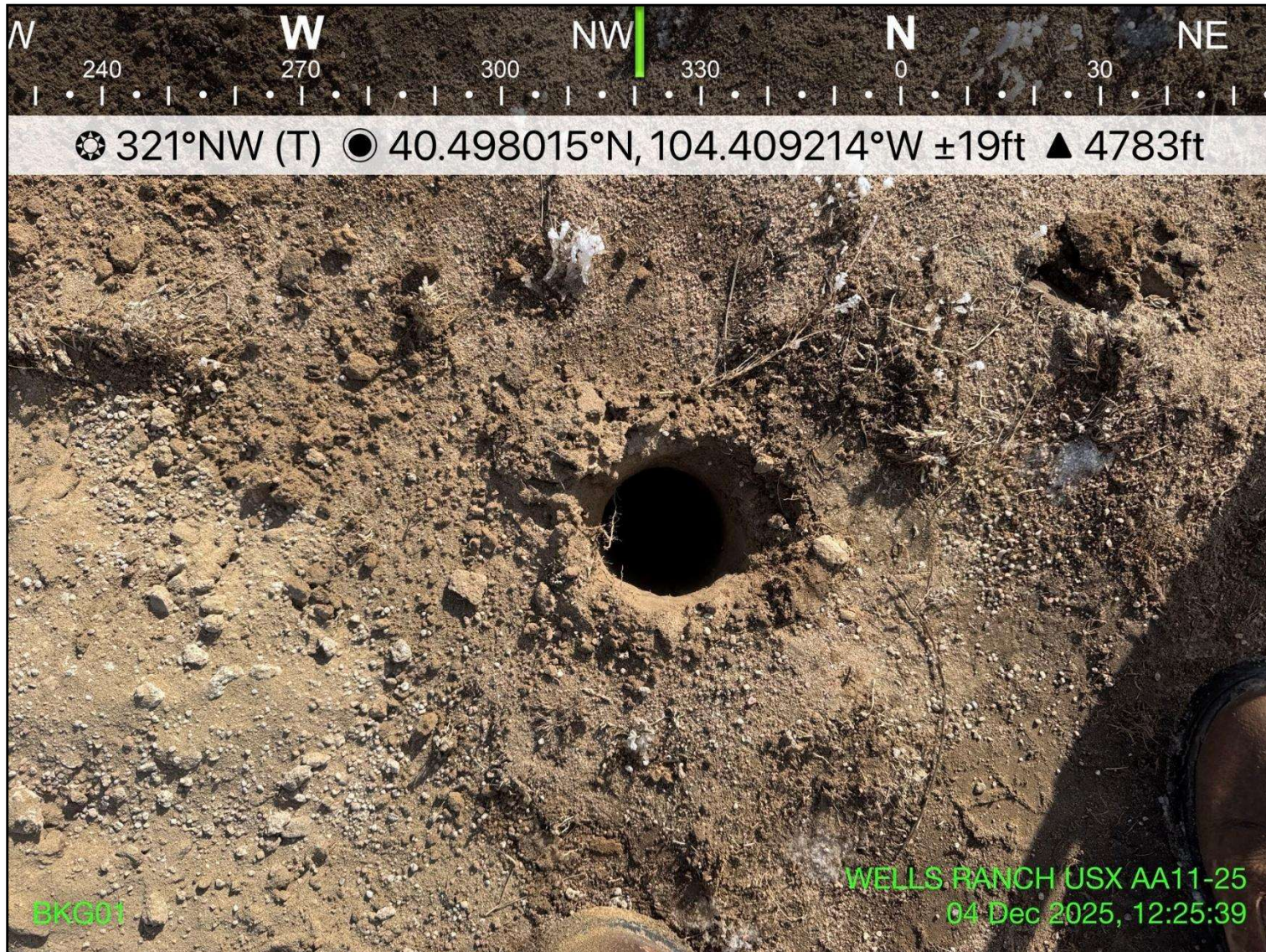


Photo 5: View of BKG01 sample location, facing northwest

Photographic Log

WELLS RANCH USX AA11-25 (REM #42447)

Noble Energy, Inc.

12/04/2025



Photo 6: View of BKG02 sample location, facing east-northeast

Photographic Log

WELLS RANCH USX AA11-25 (REM #42447)

Noble Energy, Inc.

12/04/2025



Photo 7: View of BKG03 sample location, facing northwest



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WELLHEAD CLOSURE CHECKLIST

Wellhead Closure Checklist

ECMC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional):		Pit Closure		Tank Battery Closure		Flowline Closure		Partially Buried Vault Closure
Site Name & ECMC Facility Number: WELLS RANCH USX AA11-25 / #290751			Date: 12/4/2025			Remediation Project #: 42447		
Associated Wells: WELLS RANCH USX AA11-25			Age of Site: 6/13/2007 (spud date)			Number of Photos Attached: 4		
Location: 40.497546, -104.408622						Estimated Facility Size (acres): ~0.1		

General Condition of Site: Good - cropland

USCS Soil Type: Poorly-Graded Sands (SP) Estimated Depth to Groundwater: Groundwater not encountered

Hydrocarbon Impacted Soils / Spills: None observed

Salt Crusted Soils or Impacted Vegetation: None observed

Wellhead(s)

Well API	123-25219				
Age	6/13/2007 (Spud Date)				
Condition of surface around wellhead	Good, no staining				
PID Readings	0.0ppm - 0.6ppm				
Condition of subsurface	Good, no staining				
PID Readings	0.0ppm - 0.6ppm				
Sample taken? Location/Sample ID#	WH01-S@3'				
Photo Number(s)	See attached				

Other observations regarding wellheads: None

Summary

Was impacted soil identified?
No Yes - less than 10 cubic yards Yes - more than 10 cubic yards

Total number of samples field screened: 5 Total number of samples collected: 1

Highest PID Reading: 0.6 ppm Total number of samples submitted to lab for analysis: 1

If more than 10 cubic yards of impacted soil were observed: N/A

Vertical extent: Estimated spill volume:

Lateral extent: Volume of soil removed:

Is additional investigation required?

Was groundwater encountered during the investigation?
No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils

Measured depth to groundwater:	Was remedial groundwater removal conducted?	Yes	No
Date Groundwater was encountered:	Commencement date of removal:		
Sheen on groundwater?	Yes	No	Volume of groundwater removed prior to sampling:
Free product observed?	Yes	No	Volume of groundwater removed post sampling:
Total number of samples collected:	Total Volume of groundwater removed:		
Total number of samples submitted to lab for analysis:			



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RBU CHECKLIST

Chevron Rockies Business Unit

Field Qualitative Criteria for ECMC Reporting Associated with the Discovery of Potentially Impacted Material

If answered **Yes** to any of the questions listed below, this may suggest the presence of potentially impacted materials as outlined in ECMC Rule 912. Out of an abundance of caution, a “Yes” response will be reported to the ECMC within 24 hours after discovery, regardless of laboratory results. **Immediately notify the RBU Remediation Team.** Include a copy of this Field Qualitative Spill Criteria Checklist in the field Report.

Please answer the following questions when on-site:

1. Is there visible petroleum hydrocarbon staining in the soil?
(Yes / **No**)
2. Does the soil sample from the stained area have a petroleum odor?
(Yes / **No**)
3. Is there a petroleum hydrocarbon sheen on the nearby surface water?
(Yes / **No**)
4. Does there appear to be a sheen on the surface of accumulated groundwater or seeps within the excavation indicative of petroleum?
(Yes / **No**)
5. Is stained soil in contact with groundwater?
(Yes / **No**)

Please Include relevant photos of the site conditions for items 1-5.

Location name: WELLS RANCH USX AA11-25 WH (REM # 42447)

Please Circle Facility Type: **Well** / Flowline / Production Facility / Other