



CDH Consulting, LLC
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Wellhead Closure Investigation and Environmental Summary

Campbell JF 17-41D Wellhead
ECMC Remediation Project #33091
Weld County, Colorado

Attachments:

Field Form

Figure 1 – Site Location Map

Figure 2 – Soil Sample and Field Screening Locations Map

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Photographic Log

Wellhead Closure Checklist



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FIELD FORM



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FIGURES

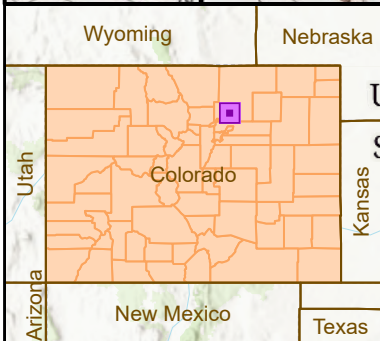
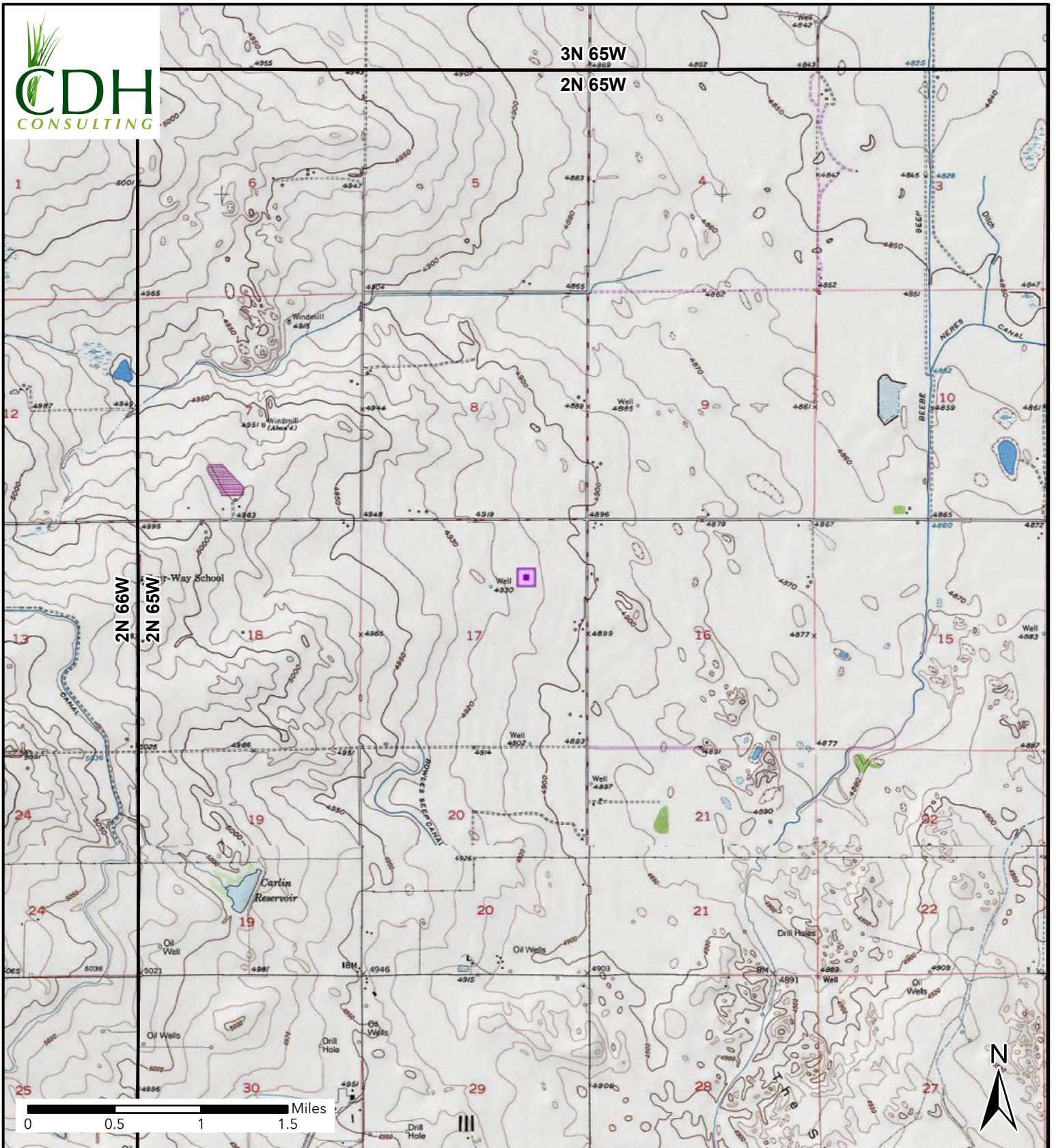
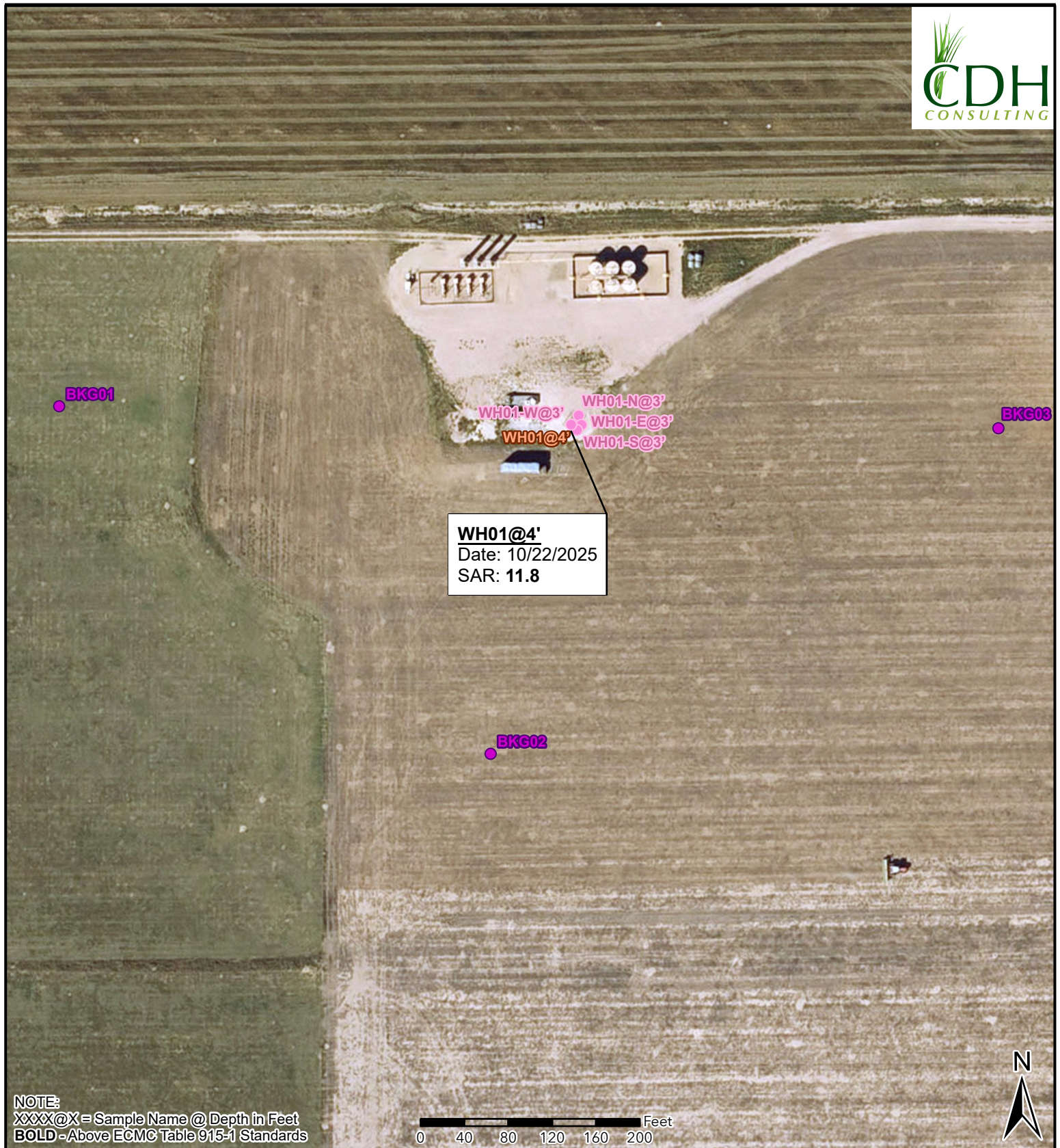


Figure 1
Site Location
CAMPBELL JF 17-41D
SWNE SEC 17-T2N-R65W
Weld County, Colorado
PDC Energy Inc

 Site Location



NOTE:
 XXXX@X = Sample Name @ Depth in Feet
BOLD - Above ECMC Table 915-1 Standards



Figure 2
Sample Locations Map
 CAMPBELL JF 17-41D
 SWNE SEC 17-T2N-R65W
 Weld County, Colorado
 PDC Energy Inc

- Soil Sample
- Background Sample
- Screening Point



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TABLES

TABLE 1
FIELD DATA SUMMARY TABLE
PDC 69175
CAMPBELL JF 17-41D, WELD COUNTY, COLORADO
REM # 33091

Sample ID	Sample Date	Depth (ft)	GPS Data		PDOP Value	VOC Concentration (ppm)
			Latitude	Longitude		
WH01@4'	10/22/2025	4	40.141808	-104.683519	1.084110	6.9
WH01-N@3'	10/22/2025	3	40.141833	-104.683514	1.066617	3.2
WH01-S@3'	10/22/2025	3	40.141797	-104.683520	1.179438	1.7
WH01-E@3'	10/22/2025	3	40.141809	-104.683504	1.179196	3.1
WH01-W@3'	10/22/2025	3	40.141810	-104.683538	1.218775	2.2
BKG01@4'	10/22/2025	4	40.141875	-104.685218	1.000000	5.9
BKG02@4'	10/22/2025	4	40.140995	-104.683821	1.200000	6.4
BKG03@4'	10/22/2025	4	40.141798	-104.682155	1.000000	2.2

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
PDC 69175
CAMPBELL JF 17-41D, WELD COUNTY, COLORADO
REM # 33091

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@4'	10/22/2025	4	<0.0011	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0022	<11.3	<0.21	<4.4	<6.7

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
PDC 69175
CAMPBELL JF 17-41D, WELD COUNTY, COLORADO
REM # 33091

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@4'	10/22/2025	4	<0.0045	<0.0045	<0.0056	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045

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
PDC 69175
CAMPBELL JF 17-41D, WELD COUNTY, COLORADO
REM # 33091

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@4'	10/22/2025	4	7.63	4.1	11.8	<0.50
BKG01@4'	10/22/2025	4	7.55	6.0	11.0	<0.50
BKG02@4'	10/22/2025	4	7.98	1.3	5.80	0.622
BKG03@4'	10/22/2025	4	7.85	2.3	6.58	0.564
Maximum Background Concentration			7.98	6.0	11.0	0.622

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
PDC 69175
CAMPBELL JF 17-41D, WELD COUNTY, COLORADO
REM # 33091

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@4'	10/22/2025	4	3.9	114	0.16	<0.47*	8.6	8.6	8.9	0.21	<0.091	28.0
BKG01@4'	10/22/2025	4	2.8	114	0.12	<0.42*	6.6	6.0	6.5	0.26	<0.10	21.0
BKG02@4'	10/22/2025	4	9.3	173	0.23	0.86	11.2	9.4	14.2	0.25	<0.090	33.1
BKG03@4'	10/22/2025	4	5.4	141	0.15	0.49	9.8	9.8	12.3	0.24	<0.11	32.1
1.25x Maximum Background Concentration			11.6	216	0.29	1.08	14.0	12.3	17.8	0.33	NA	41.4

1. **Bold** faced values exceed the ECMC Table 915-1 limit(s), but are within 1.25x background concentrations.
 2. **Red** 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.
 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.
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
CAMPBELL JF 17-41D – REM# 33091
PDC Energy Inc.
10/22/2025



Photo 1: View of wellhead excavation, facing northeast

Photographic Log
CAMPBELL JF 17-41D – REM# 33091
PDC Energy Inc.
10/22/2025

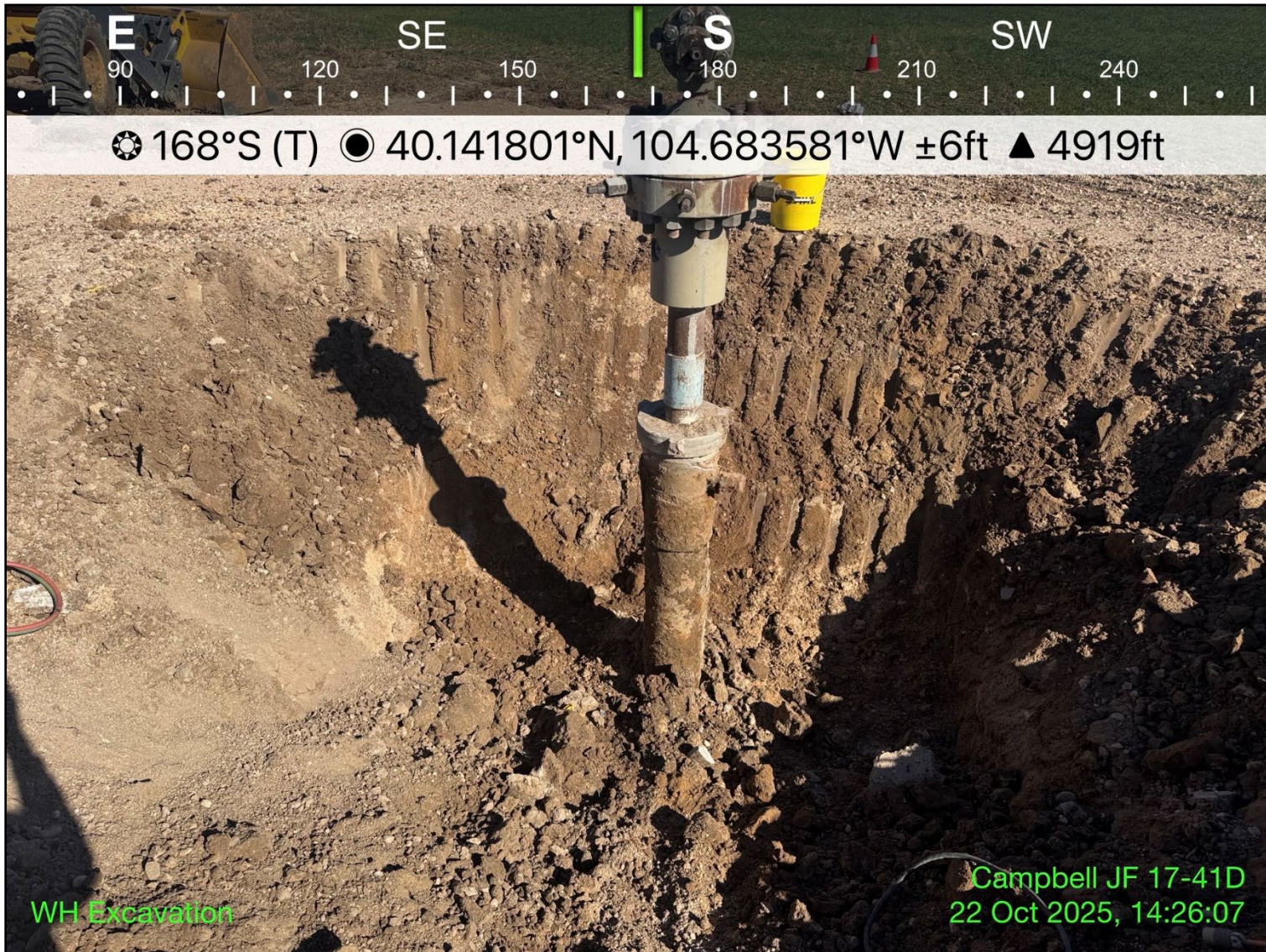


Photo 2: View of wellhead excavation, facing south

Photographic Log
CAMPBELL JF 17-41D – REM# 33091
PDC Energy Inc.
10/22/2025



Photo 3: View of wellhead excavation, facing west-northwest

Photographic Log
CAMPBELL JF 17-41D – REM# 33091
PDC Energy Inc.
10/22/2025



Photo 4: View of background location 1, facing south-southeast

Photographic Log
CAMPBELL JF 17-41D – REM# 33091
PDC Energy Inc.
10/22/2025

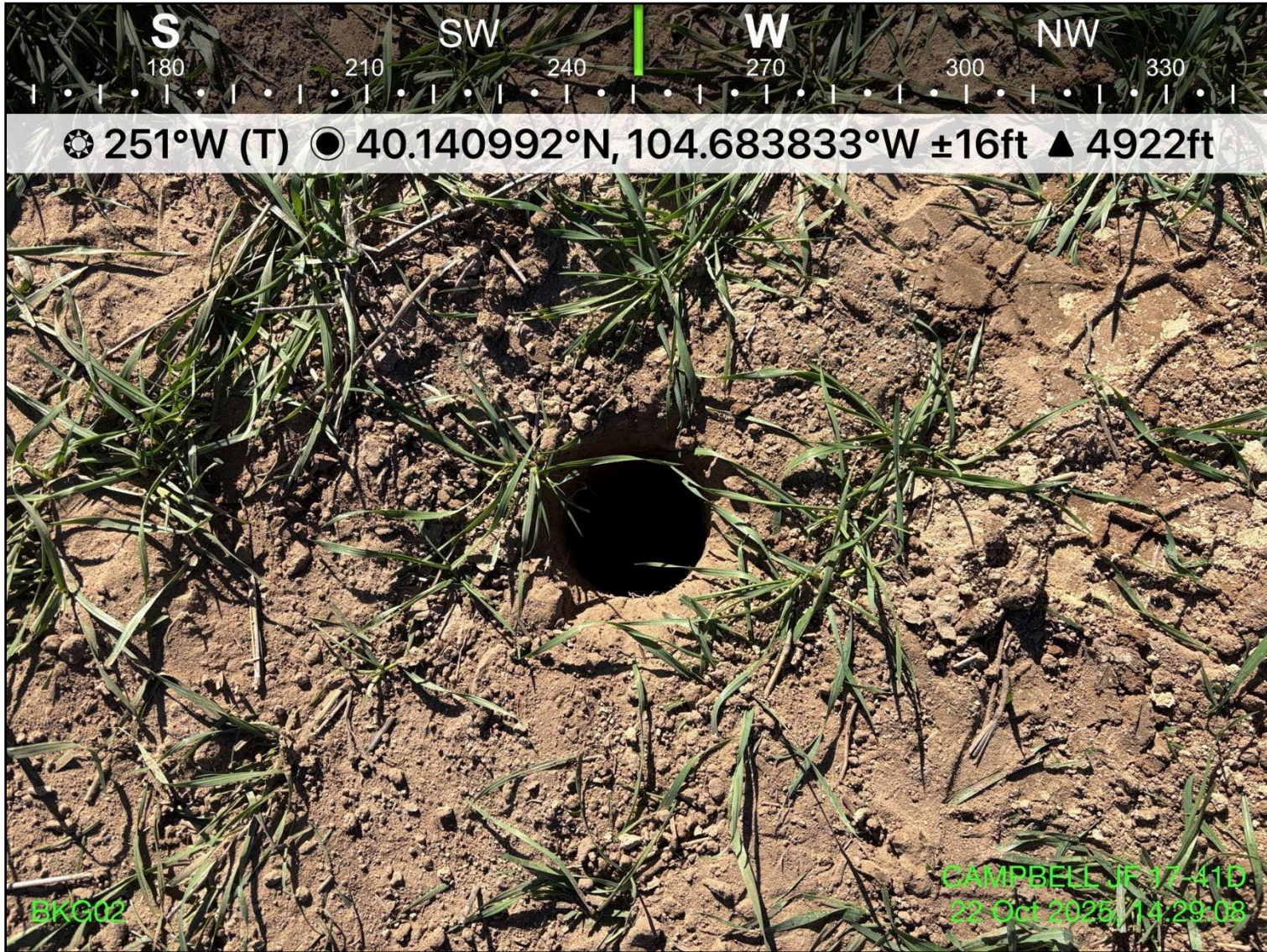


Photo 5: View of background location 2, facing west-southwest

Photographic Log
CAMPBELL JF 17-41D – REM# 33091
PDC Energy Inc.
10/22/2025



Photo 6: View of background location 3, facing west-northwest



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WELLHEAD CLOSURE CHECKLIST

Wellhead Closure Checklist

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

Additional attachments (optional):		Pit Closure		Tank Battery Closure		Flowline Closure		Partially Buried Vault Closure
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Site Name & COGCC Facility Number: Campbell JF 17-41D / Facility ID #430790	Date: 10/22/2025	Remediation Project #: 33091
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Associated Wells: Campbell JF 17-41D	Age of Site: 1/29/2013 (spud date)	Number of Photos Attached: 3
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Location: 40.141810, -104.683537	Estimated Facility Size (acres): ~0.1
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General Condition of Site: Good

USCS Soil Type: Silty Sands (SM) Estimated Depth to Groundwater: No groundwater encountered

Hydrocarbon Impacted Soils / Spills: Not encountered

Salt Crusted Soils or Impacted Vegetation: Not encountered

Wellhead(s)

Well API	05-123-36324					
Age	1/29/2013 (spud date)					
Condition of surface around wellhead	Good					
PID Readings	1.7ppm - 6.9ppm					
Condition of subsurface (staining present?)	Good					
PID Readings	1.7ppm - 6.9ppm					
Sample taken? Location/Sample ID#	Yes, see attached					
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
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Highest PID Reading: 6.9 ppm	Total number of samples submitted to lab for analysis: 1
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If more than 10 cubic yards of impacted soil were observed:

Vertical extent:	Estimated spill volume:
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Lateral extent:	Volume of soil removed:
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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
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Date Groundwater was encountered:	Commencement date of removal:
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Sheen on groundwater? Yes No	Volume of groundwater removed prior to sampling:
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Free product observed? Yes No	Volume of groundwater removed post sampling:
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Total number of samples collected:	Total Volume of groundwater removed:
------------------------------------	--------------------------------------

Total number of samples submitted to lab for analysis:	
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