



CDH Consulting, LLC
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Wellhead Closure Investigation and Environmental Summary

GOLLNER O 27-03 Wellhead
ECMC Remediation Project #43711
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

Wellhead Closure Checklist

RBU Checklist



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FIELD FORM

SITE NAME / REM: GOLLNER O 27-03 / REM #43711								DATE: 2/12/26	WEATHER: 37F, Sunny	
TYPE OF WORK: Wellhead Cut & Cap								CLIENT: PDC Energy Inc.		
LAT/LONG: 40.289573, -104.879446								PERSONNEL: NI, DT		
ESTIMATED DEPTH TO GROUNDWATER: No groundwater encountered								OTHER OBSERVATIONS: BKGs delayed due to pending 811 ticket that was cleared later in the day		
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	
2/12/2026	WH01@4.5'	SW-SC	0.9	N	N	-	N	Above Ground Storage Tank (AST)	-	
2/12/2026	WH01-N@3.5'	SW-SC	0.5	N	N	-	N	Buried or Partially Buried Vessel	-	
2/12/2026	WH01-E@3.5'	SW-SC	2.8	N	N	8:45	Y	Separator	-	
2/12/2026	WH01-S@3.5'	SW-SC	0.8	N	N	-	N	Emission Control Device (ECD)	-	
2/12/2026	WH01-W@3.5'	SW-SC	0.7	N	N	-	N	Dump Line	-	
2/12/2026	FL01-W-R@4'	SW-SC	2.9	N	N	8:46	Y	Wellhead	1	
2/12/2026	BKG01@4'	SW-SC	0.2	N	N	13:29	Y	Flowline	1	
2/12/2026	BKG02@4'	SW-SC	0.1	N	N	13:41	Y	Third Party Equipment:	-	
2/12/2026	BKG03@4'	SW-SC	0.0	N	N	13:28	Y	Other:	-	
								Soil Loads Removed		
								IMPACTED SOIL IDENTIFIED? No		
								ESTIMATED VOLUME OF IMPACTS: N/A		
								Date	Number	CY
								Total Removed		
								Disposal Facility:		
								Groundwater Recovery		
								DATE GW ENCOUNTERED:		DEPTH:
								GROUNDWATER IN CONTACT WITH IMPACTED SOIL?		
								LNAPL OR SHEEN OBSERVED ON GW?		
GROUNDWATER SAMPLING								Date	BBLs	
Date/Time	Groundwater Sample ID	Depth Collected	Turbid?	Sheen?	Odor?	Photo?	Sent to lab on Ice? (Y/N)			
								Total Removed		
								Disposal Facility:		





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FIGURES

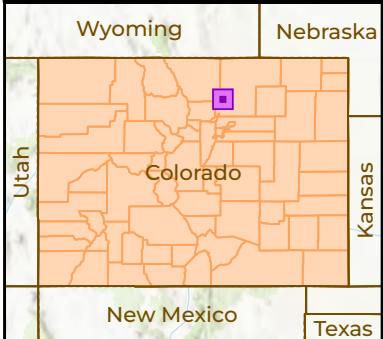
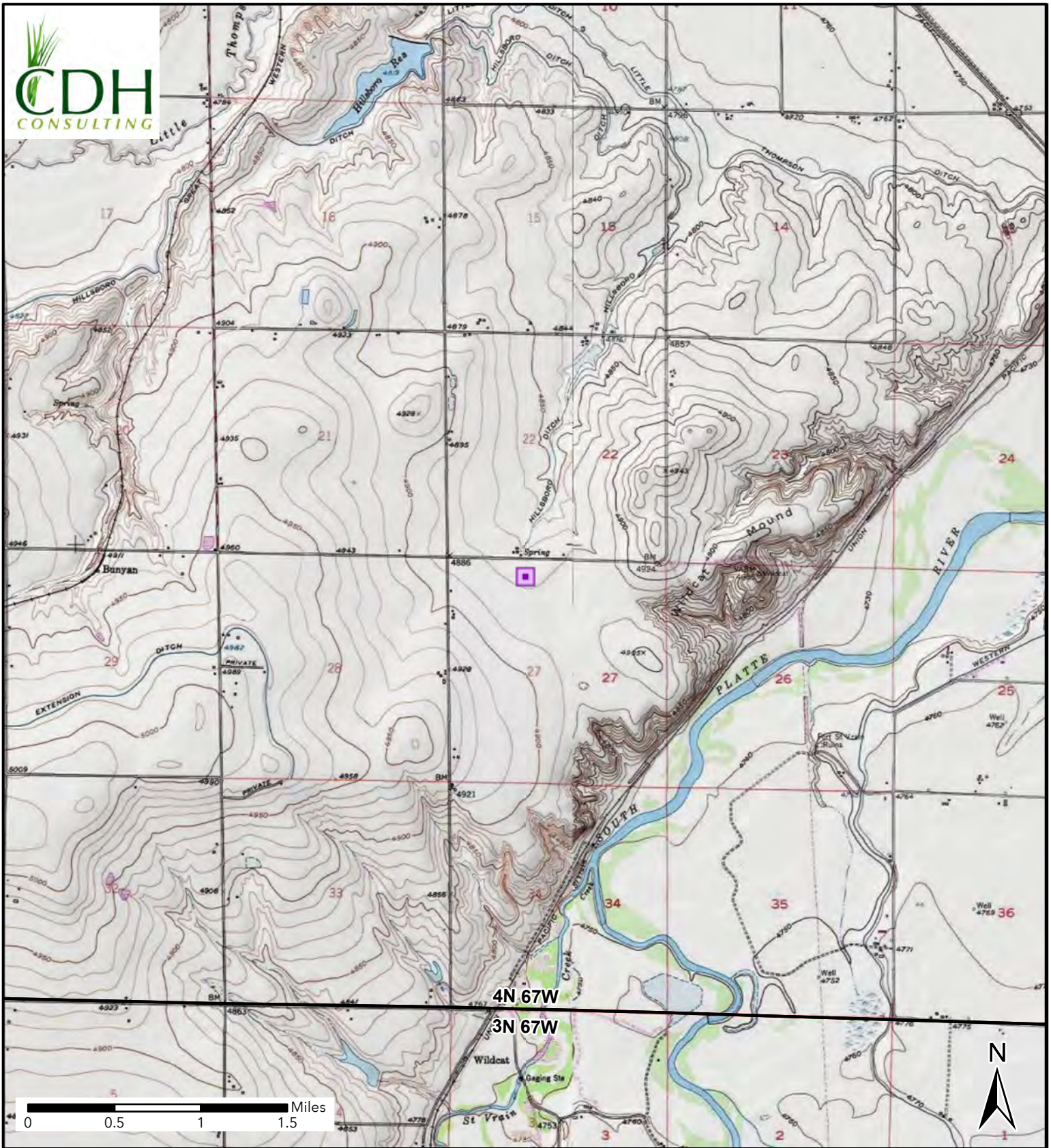
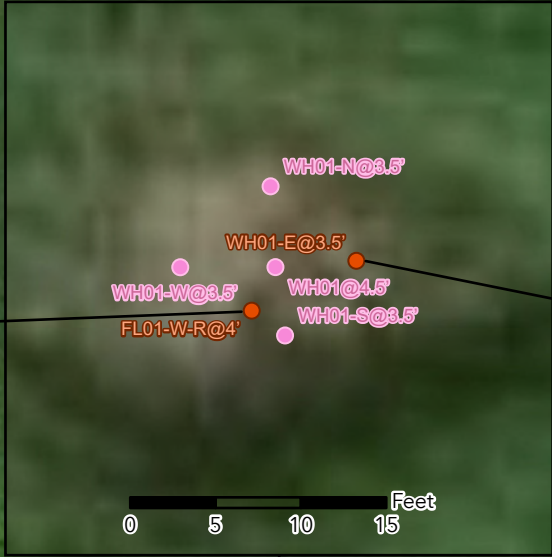


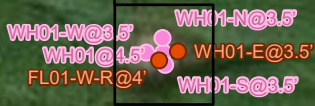
Figure 1
Site Location Map
GOLLNER O 27-03
NENW SEC 27-T4N-R67W
Weld County, Colorado
PDC Energy Inc

 Site Location



FL01-W-R@4'
 Date: 2/12/2026
 1-Methyl-Naphthalene: **0.0090** mg/kg
 Lead: **19.1** mg/kg

WH01-E@3.5'
 Date: 2/12/2026
 Barium: **311** mg/kg
 Cadmium: **0.54** mg/kg
 Lead: **35.9** mg/kg



BKG01

BKG02

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

GOLLNER O 27-03
 NENW-SEC 27-T4N-R67W
 Weld County, Colorado
 PDC Energy Inc

- Soil Sample
- Screening Point
- Background Sample

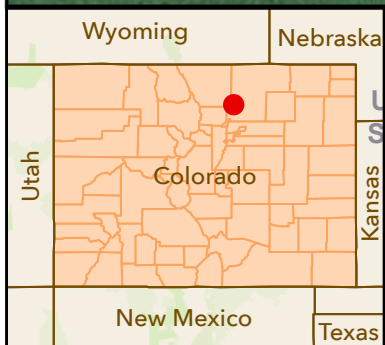


Figure 3
Supplemental Source
Mass Removal Map

GOLLNER O 27-03
 NENW-SEC 27-T4N-R67W
 Weld County, Colorado
 PDC Energy Inc

- Soil Sample
- Screening Point
- Background Sample
- Proposed Excavation to 0.5'
- Proposed Excavation to 6'



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TABLES

TABLE 1
FIELD DATA SUMMARY TABLE
PDC 69175
GOLLNER O 27-03, WELD COUNTY, COLORADO
REM #43711

Sample ID	Sample Date	Depth (ft)	GPS Data		PDOP Value	VOC Concentration (ppm)	Consultant Who Collected Samples
			Latitude	Longitude			
WH01@4.5'	2/12/2026	4.5	40.289576	-104.879453	1.400000	0.9	CDH
WH01-N@3.5'	2/12/2026	3.5	40.289589	-104.879454	1.400000	0.5	CDH
WH01-E@3.5'	2/12/2026	3.5	40.289577	-104.879436	1.100000	2.8	CDH
WH01-S@3.5'	2/12/2026	3.5	40.289565	-104.879451	1.600000	0.8	CDH
WH01-W@3.5'	2/12/2026	3.5	40.289473	-104.879473	1.200000	0.7	CDH
FL01-W-R@4'	2/12/2026	4	40.289569	-104.879458	1.000000	2.9	CDH
BKG01@4'	2/12/2026	4	40.289353	-104.880295	1.100000	0.2	CDH
BKG02@4'	2/12/2026	4	40.289258	-104.878845	1.200000	0.1	CDH
BKG03@4'	2/12/2026	4	40.290082	-104.878918	1.000000	0.0	CDH

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

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

in = Inches

ft = Feet

bgs = Below ground surface

TABLE 2
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
PDC 69175
GOLLNER O 27-03, WELD COUNTY, COLORADO
REM #43711

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***		
FL01-W-R@4'	2/12/2026	4	<0.00059	<0.0059	<0.0012	<0.0024	<0.0059	<0.0059	0.0034	217.6	<0.24	67.6	150
WH01-E@3.5'	2/12/2026	3.5	<0.00064	<0.0064	<0.0013	<0.0026	<0.0064	<0.0064	<0.0023	45.4	<0.26	14.9	30.5

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. ** Indicates laboratory reporting limit in excess of SSL
 5. *** Summation of GRO+DRO+ORO must be less than 500 mg/kg
 6. 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
bgs = Below ground surface

TABLE 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
PDC 69175
GOLLNER O 27-03, WELD COUNTY, COLORADO
REM #43711

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
FL01-W-R@4'	2/12/2026	4	<0.0044	<0.0044	<0.0055	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	0.0090	0.0138
WH01-E@3.5'	2/12/2026	3.5	<0.0046	<0.0046	<0.0058	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046

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. ** Indicates laboratory reporting limit in excess of SSL

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

bgs = Below ground surface

TABLE 4
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
PDC 69175
GOLLNER O 27-03, WELD COUNTY, COLORADO
REM #43711

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
FL01-W-R@4'	2/12/2026	4	7.70	0.85	0.607	0.690
WH01-E@3.5'	2/12/2026	3.5	7.54	0.99	0.737	0.703
BKG01@4'	2/12/2026	4	7.41	7.2	6.08	1.97
BKG02@4'	2/12/2026	4	7.70	4.0	1.88	0.766
BKG03@4'	2/12/2026	4	7.73	4.7	2.69	0.890
Maximum Background Concentration			7.73	7.2	6.08	1.97

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

2. **Red** 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
GOLLNER O 27-03, WELD COUNTY, COLORADO
REM #43711

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
FL01-W-R@4'	2/12/2026	4	6.5	216	0.31	<0.47**	16.3	19.1	16.1	0.42	<0.11	64.1
WH01-E@3.5'	2/12/2026	3.5	6.6	311	0.54	<0.46**	23.3	35.9	17.2	0.30	<0.11	80.4
BKG01@4'	2/12/2026	4	5.4	169	0.22	<0.48**	13.2	10.8	14.7	0.35	<0.11	46.1
BKG02@4'	2/12/2026	4	6.4	146	0.15	<0.46**	14.5	12.6	16.1	0.34	<0.11	50.5
BKG03@4'	2/12/2026	4	5.8	184	0.24	<0.48**	13.6	11.5	15.6	0.41	<0.11	51.4
1.25x Maximum Background Concentration			8.0	230	0.30	NA	18.1	15.8	20.1	0.51	NA	64.3

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

ECMC = Energy & Carbon Management Commission

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

mg/kg = Milligrams per kilogram

ft = Feet

bgs = Below ground surface

* Indicates laboratory minimum detection limit in excess of SSL

** Indicates laboratory reporting limit in excess of SSL

NA = Not analyzed



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PHOTOGRAPHIC LOG

Photographic Log
Gollner O 27-03 – REM# 43711
PDC Energy, Inc
02/12/2026



Photo 1: View of wellhead excavation extent, facing east-northeast

Photographic Log
Gollner O 27-03 – REM# 43711
PDC Energy, Inc
02/12/2026



Photo 2: View of wellhead excavation extent, facing southeast

Photographic Log
Gollner O 27-03 – REM# 43711
PDC Energy, Inc
02/12/2026



Photo 3: View of wellhead excavation extent, facing southwest

Photographic Log
Gollner O 27-03 – REM# 43711
PDC Energy, Inc
02/12/2026



Photo 4: View of wellhead excavation extent, facing northwest

Photographic Log
Gollner O 27-03 – REM# 43711
PDC Energy, Inc
02/12/2026



Photo 5: View of FL01-W-R sample location inside wellhead excavation extent, facing southeast

Photographic Log
Gollner O 27-03 – REM# 43711
PDC Energy, Inc
02/12/2026

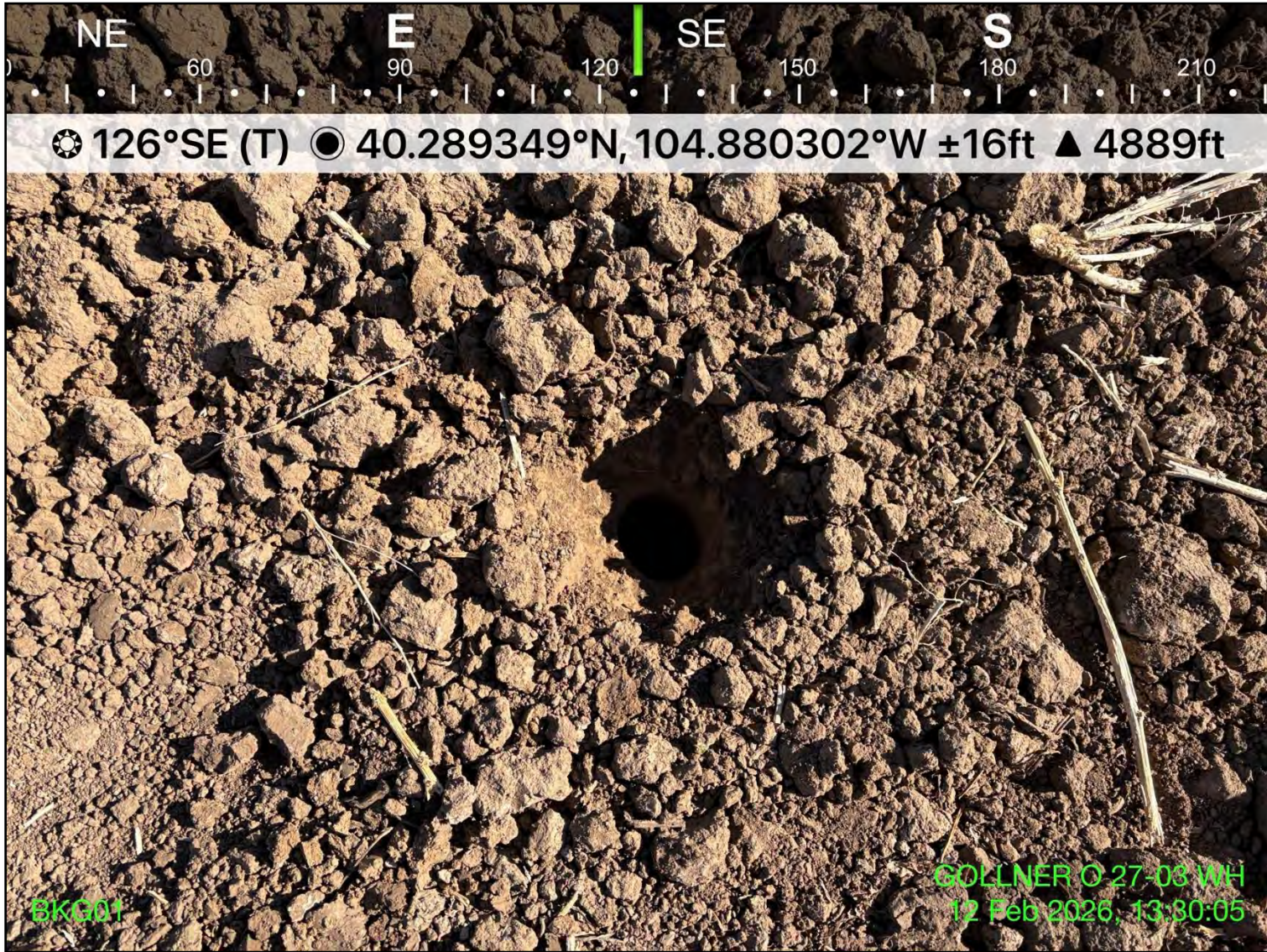


Photo 6: View of BKG01 sample location, facing southeast

Photographic Log
Gollner O 27-03 – REM# 43711
PDC Energy, Inc
02/12/2026

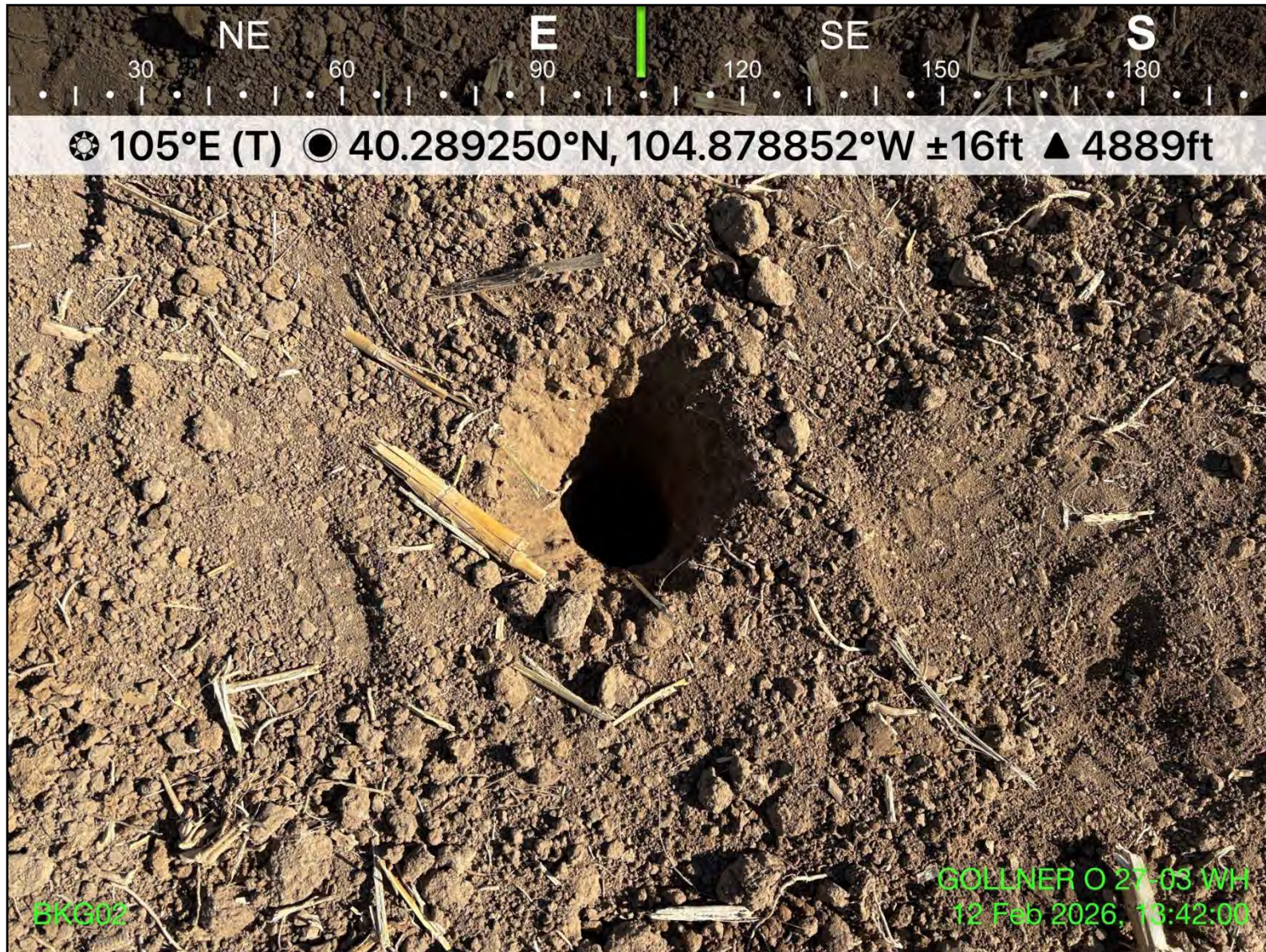


Photo 7: View of BKG02 sample location, facing east



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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: GOLLNER O 27-03 / Facility ID #248170		Date: 02/12/2026						Remediation Project #: 43711	
Associated Wells: GOLLNER O 27-03		Age of Site: 4/30/1993 (Completion Date)						Number of Photos Attached: 5	
Location: 40.289573, -104.879446							Estimated Facility Size ^(acres) : ~0.1		
General Condition of Site: Good, Agricultural Land									
USCS Soil Type: Well-graded Sands (SW) to Clayey Sands (SC)					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	05-123-15968								
Age	4/30/1993 (Completion Date)								
Condition of surface around wellhead	Good, no staining								
PID Readings	0.5ppm - 2.9ppm								
Condition of subsurface	Good, no staining								
PID Readings	0.5ppm - 2.9ppm								
Sample taken? Location/Sample ID#	WH01-E@3.5' and FL01-W-R@4'								
Photo Number(s)	Photos 1 - 5								
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: 6					Total number of samples collected: 2				
Highest PID Reading: 2.9 ppm					Total number of samples submitted to lab for analysis: 2				
If more than 10 cubic yards of impacted soil were observed: Unknown									
Vertical extent: Unknown					Estimated spill volume: Unknown				
Lateral extent: Unknown					Volume of soil removed: None				
Is additional investigation required? 1-Methyl-Naphthalene exceedance observed at sample location FL01-W-R@4' following receipt of laboratory analysis results. Supplemental source mass removal activities are required to excavate the impacted soil area.									
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: **GOLLNER O 27-03 WH (REM # 43711)**

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