



CDH Consulting, LLC
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Wellhead Closure Investigation and Environmental Summary

GOLD 32-9U Wellhead
ECMC Remediation Project #42471
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: GOLD 32-9U / REM #42471								DATE: 10/7/25	WEATHER: 55F, Cloudy	
TYPE OF WORK: Wellhead Cut & Cap								CLIENT: PDC Energy Inc.		
LAT/LONG: 40.329360, -104.894000								PERSONNEL: DT, NI		
ESTIMATED DEPTH TO GROUNDWATER: No groundwater encountered								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)		0
10/7/2025	WH01@4.5'	OL-OH	0.0	N	N	11:34	Y	Buried or Partially Buried Vessel		0
10/7/2025	WH01-N@3.5'	OL-OH	2.5	N	N	11:32	N	Separator		0
10/7/2025	WH01-S@3.5'	OL-OH	0.0	N	N	11:36	N	Emission Control Device (ECD)		0
10/7/2025	WH01-E@3.5'	OL-OH	0.0	N	N	11:38	N	Dump Line		0
10/7/2025	WH01-W@3.5'	OL-OH	0.0	N	N	11:40	N	Wellhead		1
10/7/2025	FL01-R@3.5'	OL-OH	0.0	N	N	11:42	Y	Flowline		1
10/7/2025	BKG01@4'	OL-OH	0.1	N	N	11:40	Y	Third Party Equipment:		0
10/7/2025	BKG02@4'	OL-OH	0.3	N	N	11:48	Y	Other:		0
10/7/2025	BKG03@4'	OL-OH	0.6	N	N	11:58	Y	Soil Loads Removed		
								IMPACTED SOIL IDENTIFIED? No		
								ESTIMATED VOLUME OF IMPACTS:		
								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

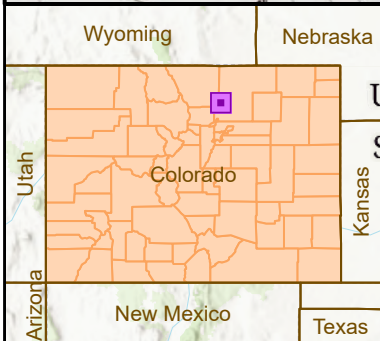
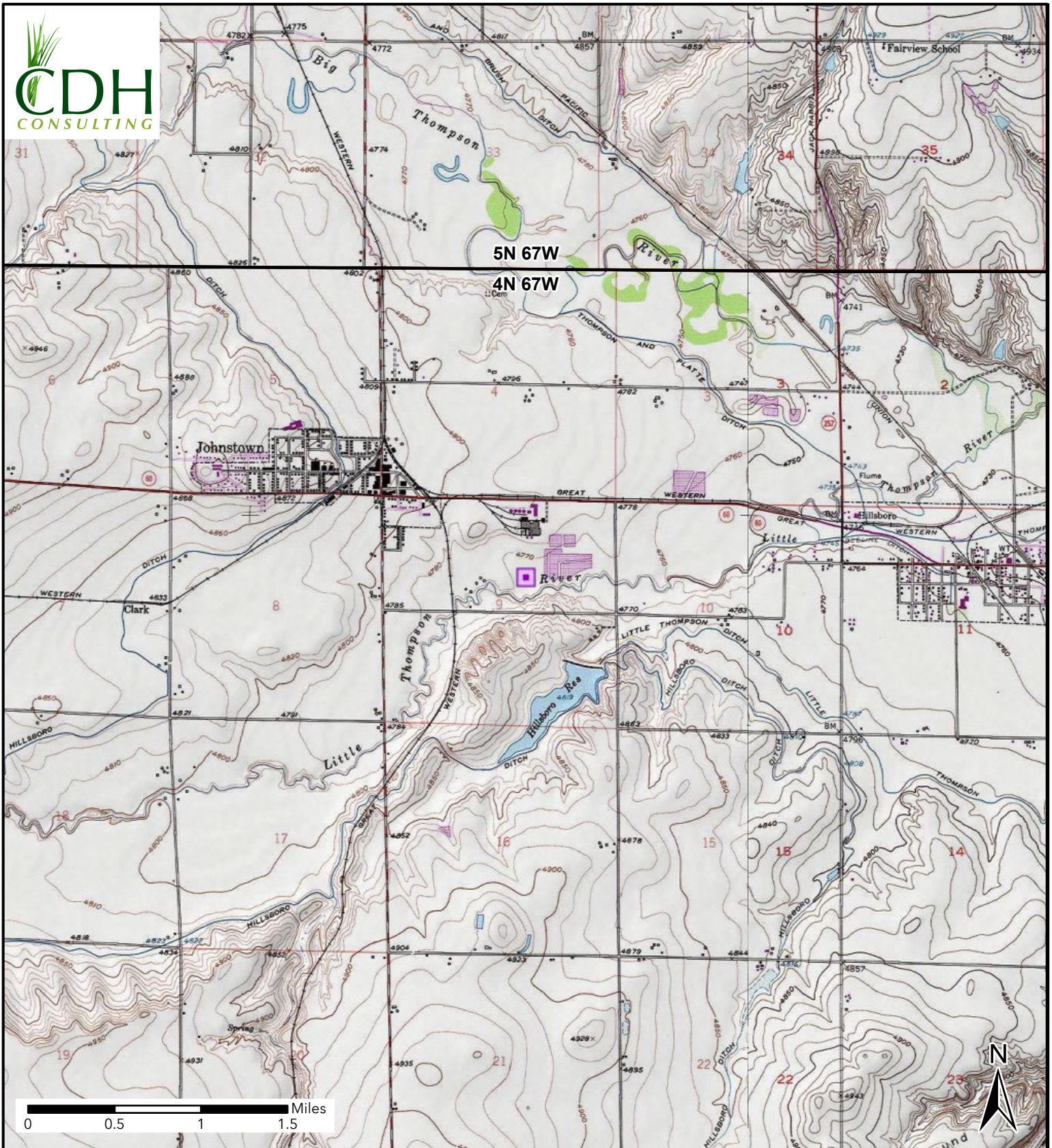



Figure 1 Site Location GOLD 32-9U

SWNE SEC 9-T4N-R67W
Weld County, Colorado
PDC Energy Inc

 Site Location

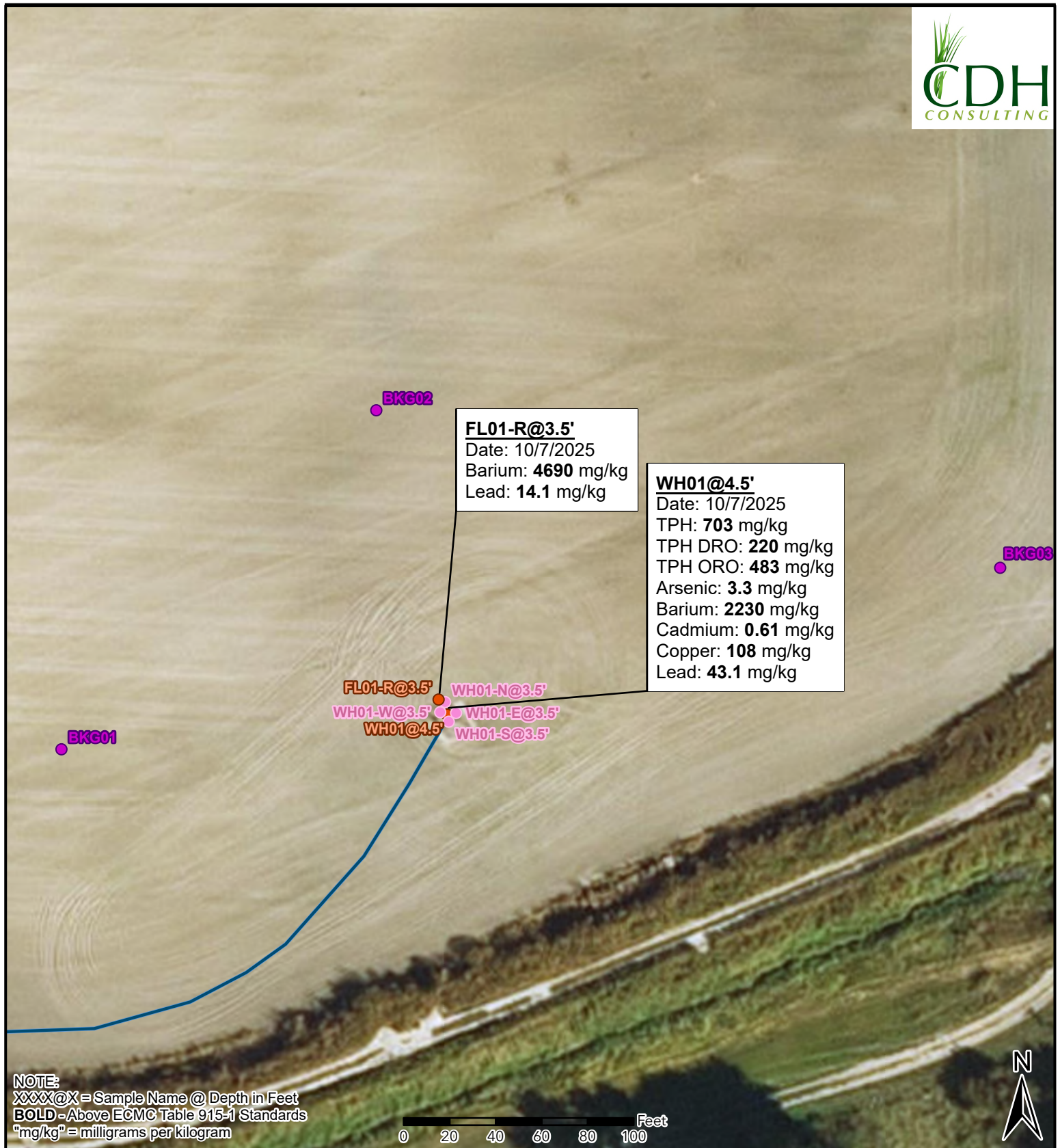


Figure 2
Soil Sample and Field Screening Locations Map

GOLD 32-9U
SWNE-SEC 9-T4N-R67W
Weld County, Colorado
PDC Energy Inc

- Soil Sample
- Background Sample
- Screening Point
- Flowline Out-Of-Service

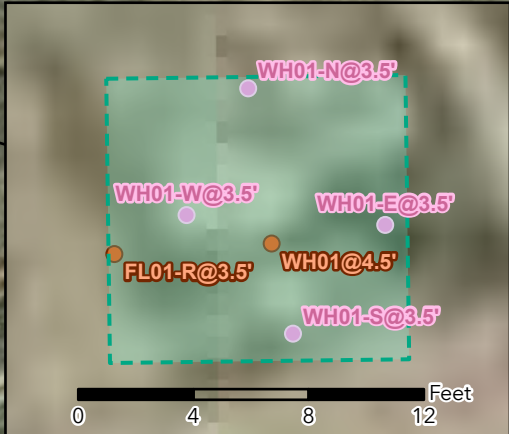


Figure 3 Supplemental Source Mass Removal Map

GOLD 32-9U
SWNE-SEC 9-T4N-R67W
Weld County, Colorado
PDC Energy Inc

- Soil Sample
- Background Sample
- Screening Point
- 10'x10' Proposed Excavation



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TABLES

TABLE 1
FIELD DATA SUMMARY TABLE
PDC 69175
GOLD 32-9U, WELD COUNTY, COLORADO
REM # 42471

Sample ID	Sample Date	Depth (ft)	GPS Data Latitude/Longitude		PDOP Value	VOC Concentration (ppm)
WH01@4.5'	10/7/2025	4.5	40.329381	-104.894011	0.800000	0.0
WH01-N@3.5'	10/7/2025	3.5	40.329396	-104.894014	1.200000	2.5
WH01-S@3.5'	10/7/2025	3.5	40.329372	-104.894008	0.900000	0.0
WH01-E@3.5'	10/7/2025	3.5	40.329383	-104.893997	0.800000	0.0
WH01-W@3.5'	10/7/2025	3.5	40.329384	-104.894021	0.900000	0.0
FL01-R@3.5'	10/7/2025	3.5	40.329381	-104.894030	0.800000	0.0
BKG01@4'	10/7/2025	4	40.329349	-104.894622	1.000000	0.1
BKG02@4'	10/7/2025	4	40.329751	-104.894128	0.900000	0.3
BKG03@4'	10/7/2025	4	40.329558	-104.893157	0.900000	0.6

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
GOLD 32-9U, WELD COUNTY, COLORADO
REM # 42471

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@4.5'	10/7/2025	4.5	<0.0012	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0024	703	<0.25	220	483
FL01-R@3.5'	10/7/2025	3.5	<0.0012	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	217	<0.23	66.5	150

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
GOLD 32-9U, WELD COUNTY, COLORADO
REM # 42471

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@4.5'	10/7/2025	4.5	<0.0049	<0.0049	<0.0061	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
FL01-R@3.5'	10/7/2025	3.5	<0.0046	<0.0046	<0.0057	<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. 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
GOLD 32-9U, WELD COUNTY, COLORADO
REM # 42471

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@4.5'	10/7/2025	4.5	7.12	2.4	0.114	<0.50
FL01-R@3.5'	10/7/2025	3.5	7.09	2.7	0.0887	<0.50
BKG01@4'	10/7/2025	4	6.34	6.1	2.46	<0.50
BKG02@4'	10/7/2025	4	4.57	6.3	3.39	<0.50
BKG03@4'	10/7/2025	4	4.12	5.2	2.11	<0.50
Maximum Background Concentration			6.34	6.3	3.39	NA

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

NA = Not analyzed

TABLE 5
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
PDC 69175
GOLD 32-9U, WELD COUNTY, COLORADO
REM # 42471

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@4.5'	10/7/2025	4.5	3.3	2230	0.61	0.55	108	43.1	11.4	0.40	<0.084	103
FL01-R@3.5'	10/7/2025	3.5	1.9	4690	0.28	0.70	19.2	14.1	7.9	0.42	<0.080	37.6
BKG01@4'	10/7/2025	4	1.7	208	<0.097	1.2	14.6	10.2	10.8	0.65	<0.097	54.5
BKG02@4'	10/7/2025	4	0.46	226	<0.082	0.51	7.2	4.1	3.9	0.21	<0.082	19.5
BKG03@4'	10/7/2025	4	0.38	210	<0.095	<0.44 *	7.6	6.1	3.1	<0.19	<0.095	13.9
1.25x Maximum Background Concentration			2.13	283	NA	1.5	18.3	12.8	13.5	0.81	NA	68.1

- 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
GOLD 32-9U - REM #42471
PDC Energy, Inc.
10/07/2025



Photo 1: View of FL01-R sample location, facing west-southwest

Photographic Log
GOLD 32-9U - REM #42471
PDC Energy, Inc.
10/07/2025



Photo 2: View of excavation extent, facing north

Photographic Log
GOLD 32-9U - REM #42471
PDC Energy, Inc.
10/07/2025



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

Photographic Log
GOLD 32-9U - REM #42471
PDC Energy, Inc.
10/07/2025

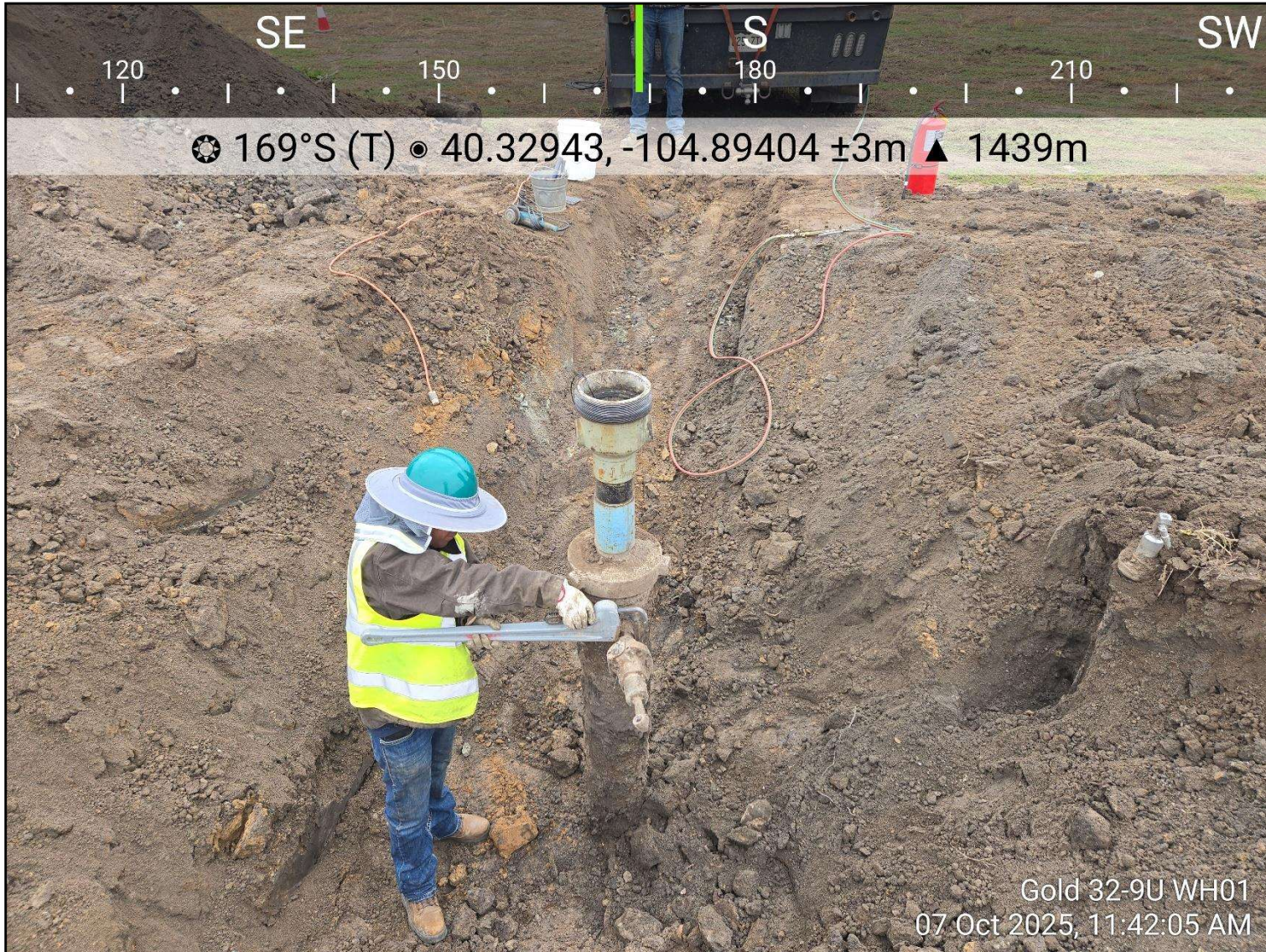


Photo 4: View of excavation extent, facing south

Photographic Log
GOLD 32-9U - REM #42471
PDC Energy, Inc.
10/07/2025



Photo 5: View of excavation extent, facing northwest

Photographic Log
GOLD 32-9U - REM #42471
PDC Energy, Inc.
10/07/2025



Photo 6: View of BKG01 sample location, facing north-northeast

Photographic Log
GOLD 32-9U - REM #42471
PDC Energy, Inc.
10/07/2025

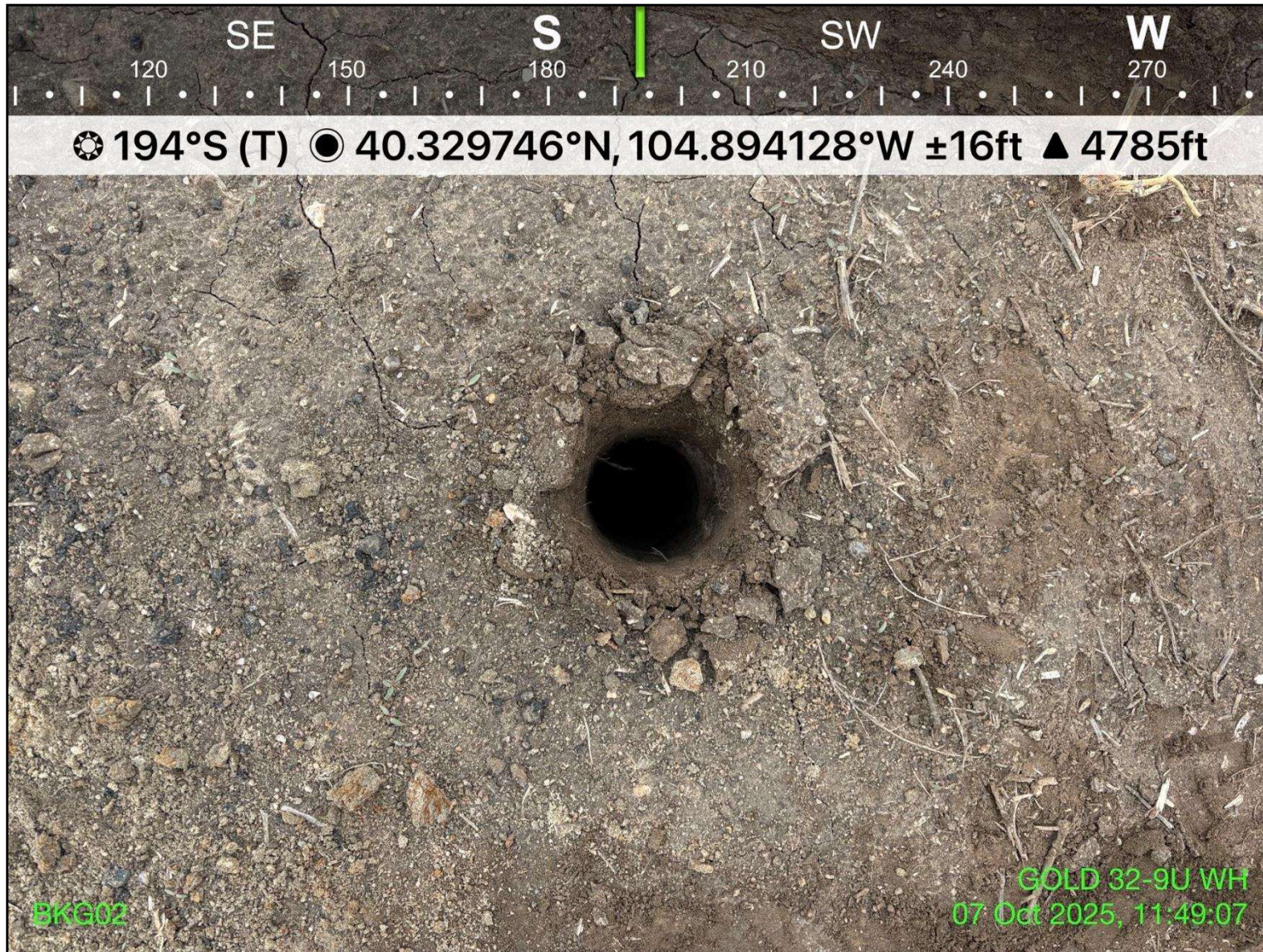


Photo 7: View of BKG02 sample location, facing south

Photographic Log
GOLD 32-9U - REM #42471
PDC Energy, Inc.
10/07/2025



Photo 8: View of BKG03 sample location, facing south



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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	
Site Name & COGCC Facility Number: GOLD 32-9U / #299042		Date: 10/07/2025						Remediation Project #: 42471	
Associated Wells: GOLD 32-9U		Age of Site: 09/25/2009 (Spud date)						Number of Photos Attached: 5	
Location: 40.329360, -104.894000							Estimated Facility Size ^(acres) : 0.1		
General Condition of Site: Good									
USCS Soil Type: Organic Silt and Clays of low to medium plasticity (OL-OH)				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	05-123-29236								
Age	09/25/2009 (Spud date)								
Condition of surface	Good								
PID Readings	0.0ppm - 2.5ppm								
Condition of subsurface	Good								
PID Readings	0.0ppm - 2.5ppm								
Sample taken? Location/Sample ID#	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: 6				Total number of samples collected: 2					
Highest PID Reading: 2.5 ppm				Total number of samples submitted to lab for analysis: 2					
If more than 10 cubic yards of impacted soil were observed:									
Vertical extent: Unknown				Estimated spill volume: Unknown					
Lateral extent: Unknown				Volume of soil removed: None					
Is additional investigation required? Supplemental Source Mass Removal via Mechanical Excavation									
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: GOLD 32-9U WH (REM # 42471)

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