



CDH Consulting, LLC  
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## **Wellhead Closure Investigation and Environmental Summary**

PHILLIPS 1 Wellhead  
ECMC Remediation Project #42741  
Weld County, Colorado

### **Attachments:**

**Field Form**

**Figure 1 – Site Location Map**

**Figure 2 – Soil Sample and Field Screening Locations Map**

**Figure 3 – Supplemental Site Investigation 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**



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## **FIELD FORM**

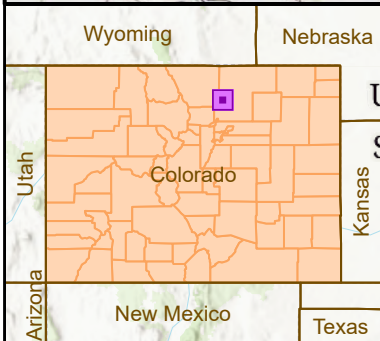
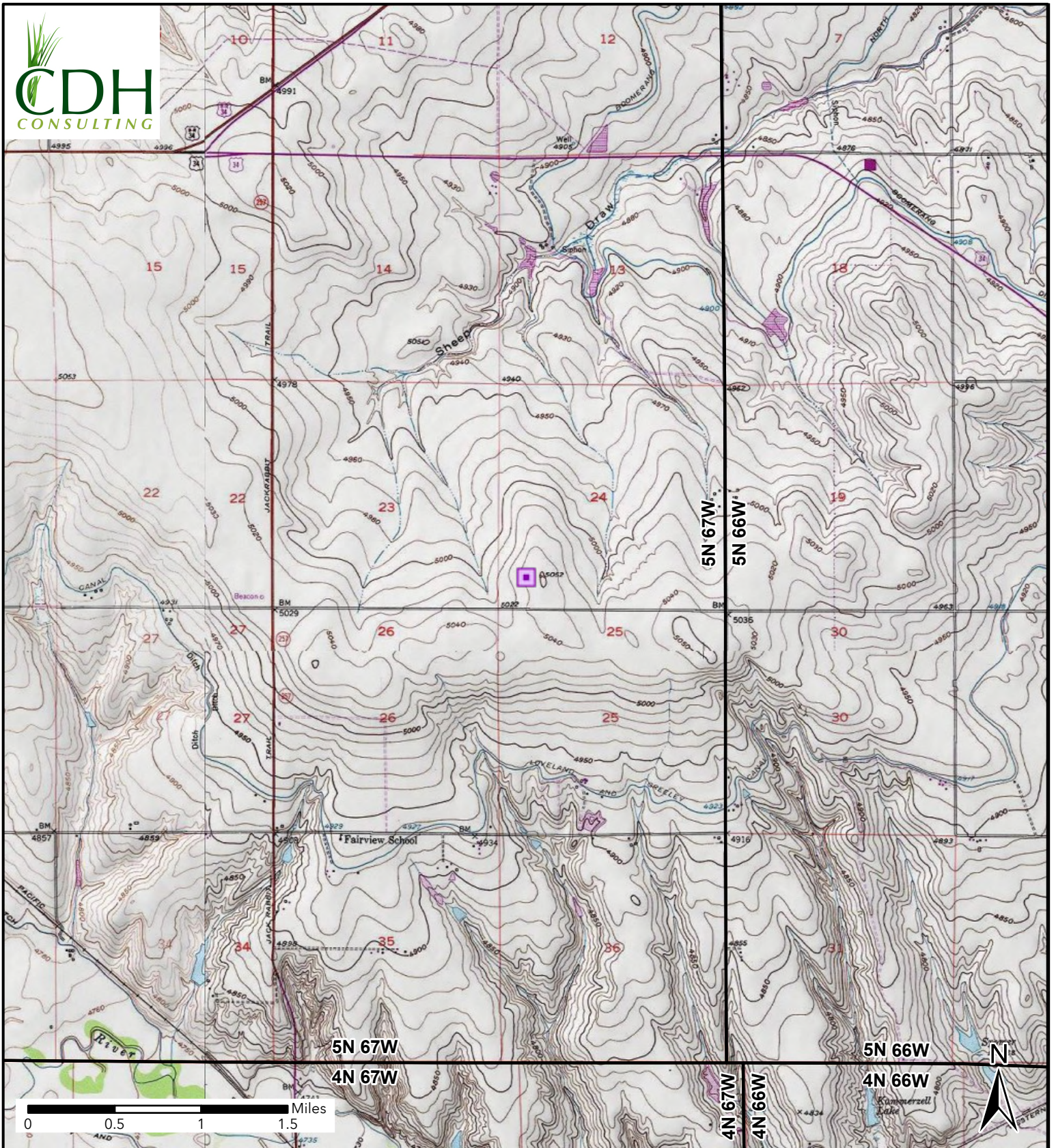
SITE NAME / REM: PHILLIPS 1 #42741								DATE: 11/6/2025	WEATHER: 68F, Windy	
TYPE OF WORK: Wellhead Cut & Cap								CLIENT: PDC Energy Inc.		
LAT/LONG: 40.79718, -104.848615								PERSONNEL: DT, NI		
ESTIMATED DEPTH TO GROUNDWATER: Groundwater not encountered								OTHER OBSERVATIONS: None		
<b>SOIL SAMPLING</b>								<b>FACILITY INFRASTRUCTURE</b>		
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	
11/6/2025	WH01@4'	SW	0.5	N	N	10:01	N	Buried or Partially Buried Vessel	0	
11/6/2025	WH01-N@3'	SW	0.5	N	N	10:02	N	Separator	0	
11/6/2025	WH01-S@3'	SW	0.2	N	N	10:03	N	Emission Control Device (ECD)	0	
11/6/2025	WH01-E@3'	SW	0.5	N	N	10:04	N	Dump Line	0	
11/6/2025	WH01-W@3'	SW	0.7	N	N	10:05	Y	Wellhead	1	
11/6/2025	FL01-R@3'	SW	0.2	N	N	10:08	Y	Flowline	1	
11/6/2025	BKG01@3.5'	SP	0.2	N	N	10:32	Y	Third Party Equipment:	0	
11/6/2025	BKG02@3.5'	SP	0.2	N	N	10:22	Y	Other:	0	
11/6/2025	BKG03@3.5'	SP	0.2	N	N	10:10	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?		
<b>GROUNDWATER SAMPLING</b>								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 PHILLIPS #1

SWSW SEC 24-T5N-R67W  
Weld County, Colorado  
PDC Energy Inc

 Site Location



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



**Figure 2**  
**Sample Locations Map**  
**PHILLIPS 1**  
 SWSW SEC 24-T5N-R67W  
 Weld County, Colorado  
 PDC Energy Inc.

- Soil Sample
- Screening Point
- Background Sample
- Flowline Removed



### Figure 3 Supplemental Site Investigation Map

**PHILLIPS 1**  
SWSW SEC 24-T5N-R67W  
Weld County, Colorado  
PDC Energy Inc.

- Soil Sample
- Background Sample
- Screening Point
- Flowline Removed



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## **TABLES**

**TABLE 1**  
**FIELD DATA SUMMARY TABLE**  
**PDC 69175**  
**PHILLIPS 1, WELD COUNTY, COLORADO**  
**REM # 42741**

Sample ID	Sample Date	Depth (ft)	GPS Data		PDOP Value	VOC Concentration (ppm)	Sampling Consultant
			Latitude	Longitude			
WH01@4'	11/6/2025	4	40.379701	-104.848622	1.300000	0.5	CDH
WH01-N@3'	11/6/2025	3	40.379714	-104.848610	1.100000	0.5	CDH
WH01-S@3'	11/6/2025	3	40.379679	-104.848628	1.300000	0.2	CDH
WH01-E@3'	11/6/2025	3	40.379693	-104.848608	1.400000	0.5	CDH
WH01-W@3'	11/6/2025	3	40.379703	-104.848641	1.300000	0.7	CDH
FL01-R@3'	11/6/2025	3	40.379696	-104.848637	1.300000	0.2	CDH
BKG01@3.5'	11/6/2025	3.5	40.379168	-104.849964	1.100000	0.2	CDH
BKG02@3.5'	11/6/2025	3.5	40.380489	-104.849159	1.000000	0.2	CDH
BKG03@3.5'	11/6/2025	3.5	40.378956	-104.846762	1.100000	0.2	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  
PDC 69175  
PHILLIPS 1, WELD COUNTY, COLORADO  
REM # 42741

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-W@3'	11/6/2025	3	<0.0011	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	24.6	<0.22	12.0	12.6
FL01-R@3'	11/6/2025	3	<0.0011	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0023	94.5	<0.22	41.7	52.8

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  
bgs = Below ground surface  
NA = Not analyzed

TABLE 3  
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA  
PDC 69175  
PHILLIPS 1, WELD COUNTY, COLORADO  
REM # 42741

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-W@3'	11/6/2025	3	<0.0044	<0.0044	<0.0056	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044
FL01-R@3'	11/6/2025	3	<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  
bgs = Below ground surface  
NA = Not analyzed

TABLE 4  
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION  
PDC 69175  
PHILLIPS 1, WELD COUNTY, COLORADO  
REM # 42741

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-W@3'	11/6/2025	3	8.18	0.5	0.578	<0.50
FL01-R@3'	11/6/2025	3	8.11	0.51	0.321	<0.50
BKG01@3.5'	11/6/2025	3.5	<b>8.46</b>	0.34	0.547	<0.50
BKG02@3.5'	11/6/2025	3.5	<b>8.50</b>	0.32	0.547	<0.50
BKG03@3.5'	11/6/2025	3.5	<b>8.56</b>	0.38	1.85	<0.50
Maximum Background Concentration			8.56	0.38	1.85	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.

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  
PHILLIPS 1, WELD COUNTY, COLORADO  
REM # 42741

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-W@3'	11/6/2025	3	5.2	178	0.27	<0.48*	12.8	14.1	14.5	0.26	<0.10	48.9
FL01-R@3'	11/6/2025	3	6.0	183	0.57	<0.49*	29.7	79.5	15.5	0.27	<0.10	86.1
BKG01@3.5'	11/6/2025	3.5	5.5	239	0.24	<0.42*	12.8	11.5	15.5	0.23	<0.10	48.5
BKG02@3.5'	11/6/2025	3.5	5.9	129	0.17	<0.42*	10.3	9.7	11.3	0.21	<0.096	40.0
BKG03@3.5'	11/6/2025	3.5	5.1	176	0.23	<0.44*	12.2	10.4	15.1	<0.21	<0.10	46.9
1.25x Maximum Background Concentration			7.4	299	0.30	NA	16.0	14.4	19.4	0.29	NA	60.6

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**  
PHILLIPS 1 (REM #42741)  
PDC Energy, Inc.  
11/6/2025



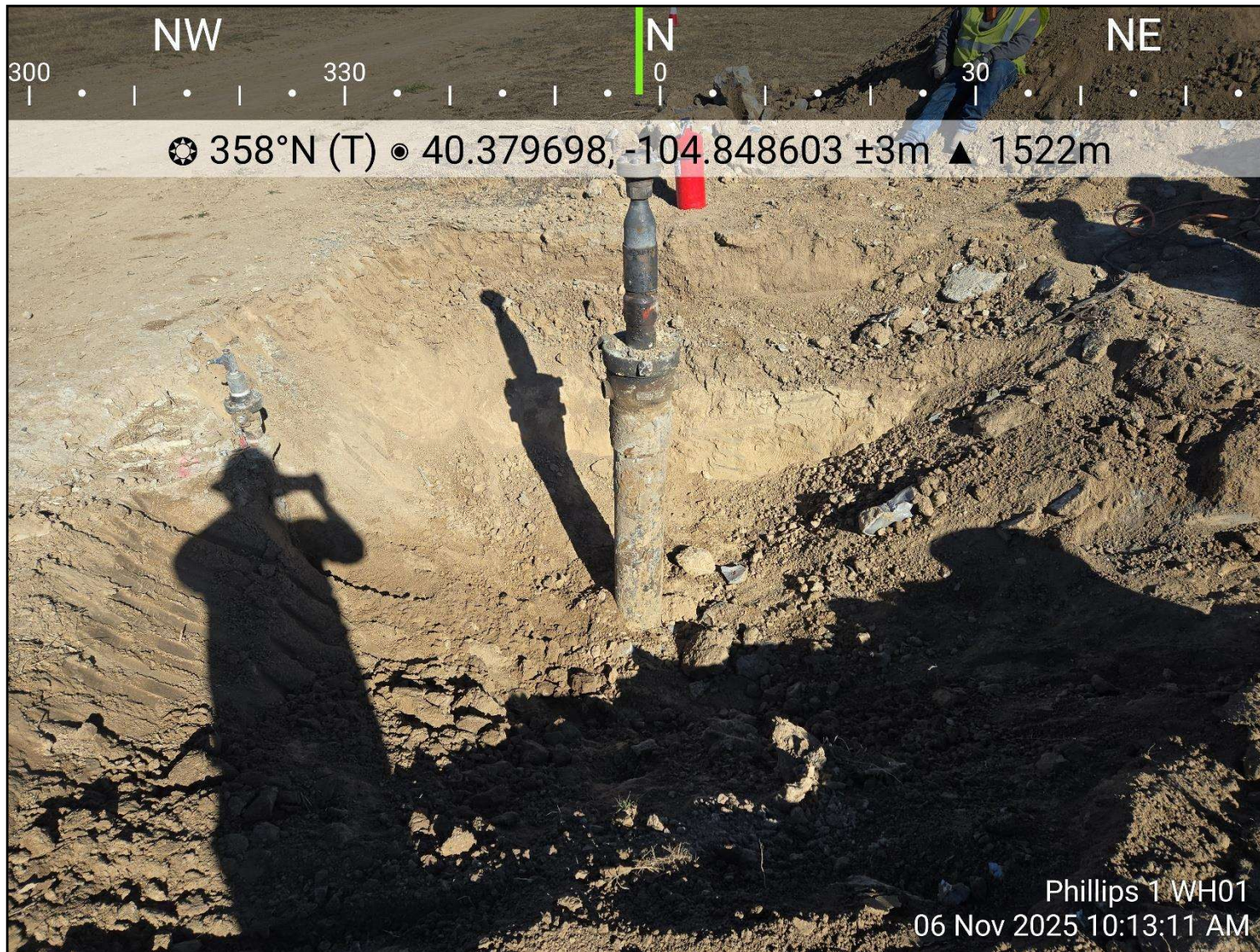
**Photo 1:** View of wellhead excavation, facing south

**Photographic Log**  
PHILLIPS 1 (REM #42741)  
PDC Energy, Inc.  
11/6/2025



**Photo 2:** View of wellhead excavation, facing east-northeast

**Photographic Log**  
PHILLIPS 1 (REM #42741)  
PDC Energy, Inc.  
11/6/2025



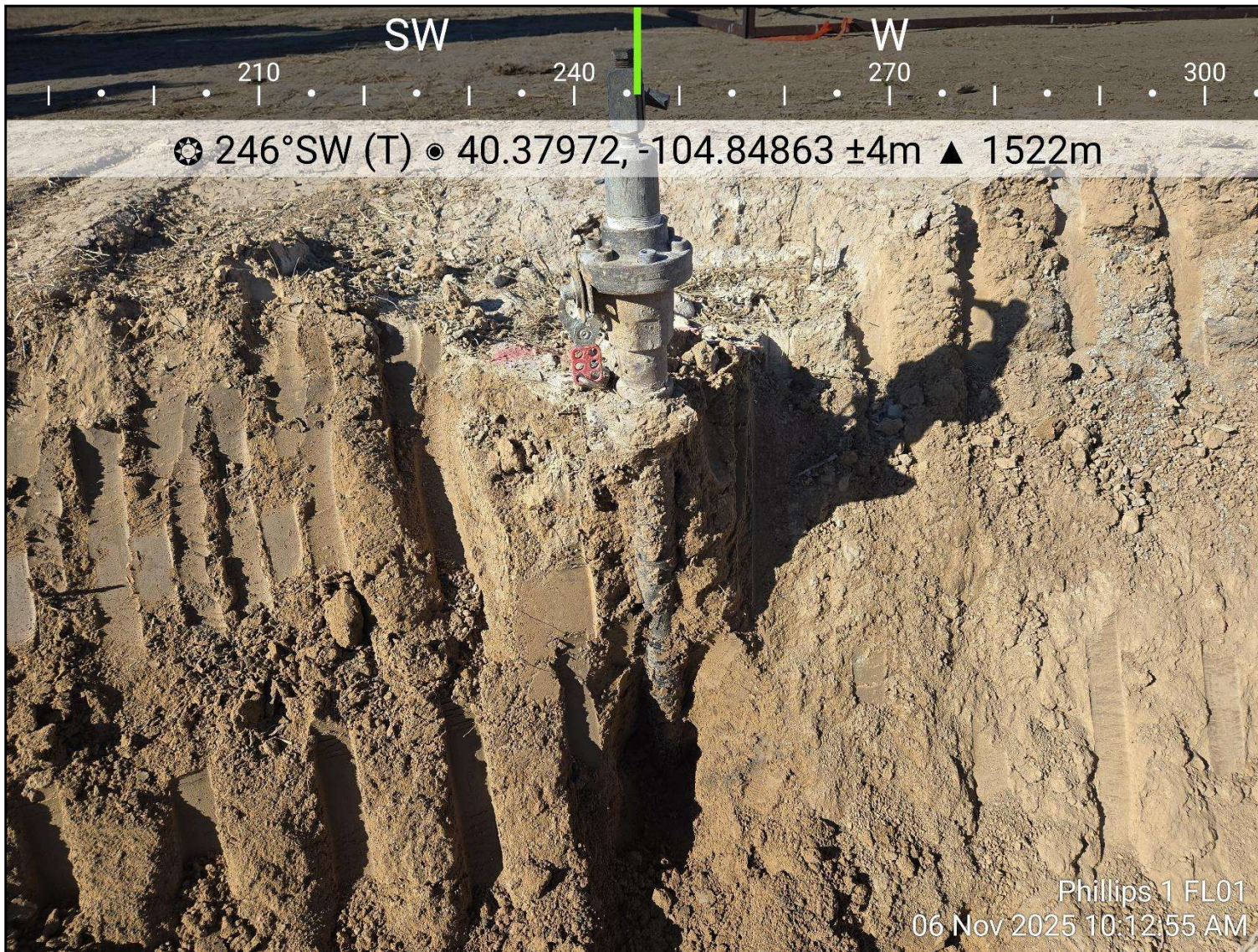
**Photo 3:** View of wellhead excavation, facing north

**Photographic Log**  
PHILLIPS 1 (REM #42741)  
PDC Energy, Inc.  
11/6/2025



**Photo 4:** View of wellhead excavation, facing west-southwest

**Photographic Log**  
PHILLIPS 1 (REM #42741)  
PDC Energy, Inc.  
11/6/2025



**Photo 5:** View of flowline riser excavation, facing west-southwest

**Photographic Log**  
PHILLIPS 1 (REM #42741)  
PDC Energy, Inc.  
11/6/2025



**Photo 6:** View of background location 1, facing east

**Photographic Log**  
PHILLIPS 1 (REM #42741)  
PDC Energy, Inc.  
11/6/2025



**Photo 7:** View of background location 2, facing northwest

**Photographic Log**  
PHILLIPS 1 (REM #42741)  
PDC Energy, Inc.  
11/6/2025



**Photo 8:** View of background location 3, facing south-southwest



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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: PHILLIPS 1 / Facility ID #243928		Date: 11/6/2025					Remediation Project #: 42741		
Associated Wells: PHILLIPS 1		Age of Site: 8/22/1984 (completion date)					Number of Photos Attached: 8		
Location: 40.379718, -104.848615							Estimated Facility Size (acres): ~0.1		
General Condition of Site: Good									
USCS Soil Type: Well-graded sands (SW)				Estimated Depth to Groundwater: Not encountered					
Hydrocarbon Impacted Soils / Spills: Not encountered									
Salt Crusted Soils or Impacted Vegetation: Not encountered									
Wellhead(s)									
Well API	05-123-11720								
Age	8/22/1984								
Condition of surface around wellhead	Good								
PID Readings	0.2 ppm - 0.7 ppm								
Condition of subsurface	Good, no staining present								
PID Readings	0. ppm 2- 0.7 ppm								
Sample taken? Location/Sample ID#	WH01-W@3', FL01-R@3'								
Photo Number(s)	See attached								
Other observations regarding wellheads: None									
Summary									
Was impacted soil identified? <b>No</b> 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: 0.7 ppm				Total number of samples submitted to lab for analysis: 2					
If more than 10 cubic yards of impacted soil were observed:									
Vertical extent:				Estimated spill volume:					
Lateral extent:				Volume of soil removed:					
Is additional investigation required?									
Was groundwater encountered during the investigation? <b>No</b> 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:									