

# DECOMMISSIONING REPORT ALBRIGHTON D-10HN FLOWLINE

ECMC REMEDIATION # 38573

Prepared for:



**PDC ENERGY**

1099 18th Street  
Suite 1500  
Denver, CO 80202

Prepared by:



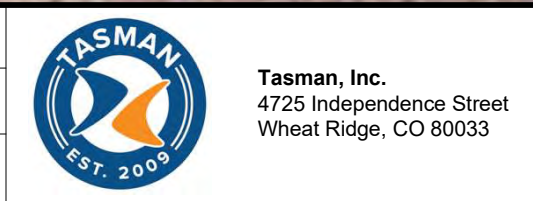
4725 Independence Street  
Wheat Ridge, CO 80033



DATE: March 13, 2025

DESIGNED BY: B. Nelson

DRAWN BY: L. Reed



**PDC Energy, Inc. – 69175 – DJ Basin**  
**Albrighton D-10HN Flowline**  
SWSW, Section 10, Township 6 North, Range 64 West  
Weld County, Colorado

**SOIL SAMPLE LOCATION MAP (FLOWLINE)**

**FIGURE 1**

**TABLE 1**  
**FIELD DATA SUMMARY TABLE**  
**PDC ENERGY, INC. - 69175**  
**ALBRIGHTON D-10HN, WELD COUNTY, COLORADO**  
**REM # 38573**

Sample ID	Sample Date	Depth (ft. bgs)	GPS Data Latitude/Longitude		PDOP Value	VOC Concentration (ppm)
FL01R-S@4'	3/13/2025	4	40.496637	-104.540265	1.1	0.3
FL01R-W@3'	3/13/2025	3	40.496603	-104.541661	0.8	0.2
BKG01@1'	3/13/2025	1	40.496066	-104.541152	0.9	0.2
BKG01@2'	3/13/2025	2	40.496066	-104.541152	0.9	0.3
BKG01@3'	3/13/2025	3	40.496066	-104.541152	0.9	0.2
BKG01@4'	3/13/2025	4	40.496066	-104.541152	0.9	0.2

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

bgs = Below ground surface

TABLE 2  
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA  
PDC ENERGY, INC. - 69175  
ALBRIGHTON D-10HN, WELD COUNTY, COLORADO  
REM # 38573

Sample ID	Sample Date	Depth (ft. bgs)	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**		
FL01R-S@4'	3/13/2025	4	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00131	<50	<0.200	<25.0	<100
FL01R-W@3'	3/13/2025	3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.0038	<50	<0.200	<25.0	<100

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. \*\* Summation of GRO+DRO+ORO must be less than 500 mg/kg
- (<) = 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 ENERGY, INC. - 69175  
ALBRIGHTON D-10HN, WELD COUNTY, COLORADO  
REM # 38573

Sample ID	Sample Date	Depth (ft. bgs)	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
FL01R-S@4'	3/13/2025	4	<0.00374	<0.00374	0.00187	0.00187	<0.00374	<0.00374	<0.00374	<0.00374	0.00225	<0.00374	<0.00374	0.00225	<0.00374	<0.00374
FL01R-W@3'	3/13/2025	3	<0.00397	<0.00397	0.00238	0.00278	0.00278	<0.00397	0.00278	<0.00397	0.00397	<0.00397	<0.00397	0.00477	<0.00397	<0.00397

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)

(<) = 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 ENERGY, INC. - 69175**  
**ALBRIGHTON D-10HN, WELD COUNTY, COLORADO**  
**REM # 38573**

Sample ID	Sample Date	Depth (ft. bgs)	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
FL01R-S@4'	3/13/2025	4	<b>8.34</b>	0.386	0.576	0.116
FL01R-W@3'	3/13/2025	3	8.26	0.324	0.801	<0.100
BKG01@3'	3/13/2025	3	8.19	0.729	0.728	0.140
BKG01@4'	3/13/2025	4	8.22	0.601	1.18	0.161
Maximum Background Concentration			8.22	-	-	-

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.

mg/L = Milligrams per liter

ft. = Feet

bgs = Below ground surface

mmhos/cm = Millimohs per centimeter

TABLE 5  
SUMMARY OF METALS IN SOIL CHEMISTRY DATA  
PDC ENERGY, INC. - 69175  
ALBRIGHTON D-10HN, WELD COUNTY, COLORADO  
REM # 38573

Sample ID	Sample Date	Depth (ft. bgs)	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
FL01R-S@4'	3/13/2025	4	<b>2.58</b>	68.2	0.0933	<0.0911*	<9.24	5.03	4.44	<0.240	<0.0924	<34.2
FL01R-W@3'	3/13/2025	3	<b>2.84</b>	<b>318</b>	0.187	<0.325*	11.3	8.69	7.77	<0.225	<0.0864	45.5
BKG01@3'	3/13/2025	3	3.38	71.9	0.120	<0.245*	<9.82	4.63	5.10	<0.255	<0.0982	<36.3
BKG01@4'	3/13/2025	4	2.02	45.4	<0.0895	<0.247*	<8.95	3.72	3.45	<0.233	<0.0895	<33.1
1.25x Maximum Background Concentration			4.23	89.9	-	-	-	-	-	-	-	-

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. \* Indicates laboratory minimum detection limit in excess of SSL

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

NA - Not analyzed



## FLOWLINE ABANDONMENT FORM

<b>SITE NAME:</b> Albrighton D-10HN Flowline							<b>DATE:</b> 3/13/2025	<b>REM. PROJECT #:</b> 38573	<b>WEATHER:</b> 59F Sunny		
<b>SITE DIRECTIONS:</b> Turn right onto county rd 60 1/2, straight onto co rd 55							<b>CLIENT:</b> PDC				
<b>LEGALS AND LAT/LONG:</b> 40.496612, -104.541691							<b>TASMAN PERSONNEL:</b> JO				
<b>SOIL TYPES:</b> Silty Sand - SM							<b>SURFACE GRADIENT:</b> North				
<b>SOIL SAMPLING</b>							<b>FACILITY INFRASTRUCTURE</b>				
Date/Time	Soil Sample ID	PID (ppm)	Visual	Olfactory	Photo?	Grab or Lab Sample?	EQUIPMENT		Quantity	Photo?	
							Above Ground Storage Tank (AST)				
3/13/2025 12:43	BKG01@1'	0.2	No Staining	No Odor	Yes	Grab	Buried or Partially Buried Vessel				
3/13/2025 12:45	BKG01@2'	0.3	No Staining	No Odor	Yes	Grab	Separator				
3/13/2025 12:47	BKG01@3'	0.2	No Staining	No Odor	Yes	Lab	Emission Control Device (ECD)				
3/13/2025 12:49	BKG01@4'	0.2	No Staining	No Odor	Yes	Lab	Dump Line				
3/13/2025 13:07	FL01R-W@3'	0.2	No Staining	No Odor	Yes	Lab	Wellhead		1		
3/13/2025 14:09	FL01R-S@4'	0.3	No Staining	No Odor	Yes	Lab	Flowline		1		
							Other:				
							<b>Soil Loads Removed</b>				
							<b>IMPACTED SOIL IDENTIFIED?</b>				
							<b>ESTIMATED VOLUME OF IMPACTS:</b>				
							<b>Date</b>	<b>Number</b>	<b>CY</b>		
							<b>Total Removed</b>		0	0	
							<b>Disposal Facility:</b>				
							<b>Groundwater Recovery</b>				
							<b>DATE GW ENCOUNTERED:</b>		<b>DEPTH:</b>		
							<b>GROUNDWATER IN CONTACT WITH IMPACTED SOIL?</b>				
							<b>LNAPL OR SHEEN OBSERVED ON GW?</b>				
<b>GROUNDWATER SAMPLING</b>							<b>Date</b>	<b>BBLS</b>			
Date/Time	Groundwater Sample ID	Depth Collected	Turbid?	Sheen?	Odor?	Photo?					
							<b>Total Removed</b>		0		
							<b>Disposal Facility:</b>				



# 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? No\_\_\_\_\_
2. Does the soil sample from the stained area have a petroleum odor? No\_\_\_\_\_
3. Is there a petroleum hydrocarbon sheen on the nearby surface water? No\_\_\_\_\_
4. Does there appear to be a sheen of the surface of accumulated groundwater or seeps within the excavation indicative of petroleum? No\_\_\_\_\_
5. Is stained soil in contact with groundwater? No\_\_\_\_\_

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

Location name: Albrighton D-10HN FL

Please Circle Facility Type: Flowline



<b>Equipment ID:</b> BKG01		<b>Equipment Type:</b>		<b>Equipment ID:</b> FL01R-W@3'		<b>Equipment Type:</b>	
<b>Material:</b>	<b>Volume:</b>	<b>Contents:</b>		<b>Material:</b>	<b>Volume:</b>	<b>Contents:</b>	
<b>Notes/Conditions:</b>				<b>Notes/Conditions:</b> Pre-cleared via Hydrovac			



<b>Equipment ID:</b> FL01R-S@4'		<b>Equipment Type:</b>		<b>Equipment ID:</b>		<b>Equipment Type:</b>	
<b>Material:</b>	<b>Volume:</b>	<b>Contents:</b>		<b>Material:</b>	<b>Volume:</b>	<b>Contents:</b>	
<b>Notes/Conditions:</b> Pre-cleared via Hydrovac				<b>Notes/Conditions:</b>			



**TASMAN GEOSCIENCES, INC.**  
**PDC ENERGY FLOWLINE ABANDONMENT**  
**THIRD PARTY VERIFICATION CHECKLIST**



**Company** Tasman Geosciences, Inc.

**Certifying P.E.** Brandon Bruns **CO P.E. License #** 41155

**Inspector** Jessica O'Neal

The inspector is operating under the authority and supervision of the certifying P.E.

**SITE INFORMATION**

**Well Name** Albrighton D-10HN **API/Facility ID** 123-42500

**Legals** Section 10, Township 6N, Range 64W

**Site-Specific Notes**

**ABANDONMENT PROCEDURE**

If a flowline is abandoned in place, the following must be visually inspected to ensure the flowline is isolated, safe, and inert in accordance with COGCC Rule 1105:

- (1) All fluids have been evacuated from the flowline.

Alternative Option:

If Tasman is not present for the flowline evacuation, PDC will provide photos of the evacuation at **both** ends of the line during activities to demonstrate compliance. Photos **must** include wellhead or facility signage.

- (2) The flowline has been disconnected from any source and depleted of atmospheric pressure.
- (3) All risers have been removed to at least 3 feet below ground surface or to the depth of the flowline, whichever is shallower.
- (4) Each end of the flowline has been adequately sealed below ground surface.
- (5) Above-ground cathodic protection has been removed.

**INSPECTOR CHECKLIST**

Photo Documentation Required for Line Evacuation and Sealed Ends of Flowline

	Yes	No	N/A
Fluids Are Evacuated from Flowline	X		
Flowline Is Disconnected/Isolated From All Sources	X		
Risers Are Cut Below Ground Surface and Removed	X		
Flowline Is Sealed at Both Ends	X		
Cathodic Protection Is Removed			X
GIS Data of Flowline Alignment Was Previously Collected by PDC	X		

**Inspector Signature** *Jessica O'Neal*

**Date** 3/13/2025

**Notes**

**PDC ENERGY FLOWLINE ABANDONMENT  
INSPECTION PHOTO LOG  
INSPECTION DATE: 3/13/2025**

Albrighton D-10HN  
PDC ENERGY

**SIGNAGE**



SIGNAGE



**PDC ENERGY FLOWLINE ABANDONMENT  
INSPECTION PHOTO LOG  
INSPECTION DATE: 3/13/2025**

Albrighton D-10HN  
PDC ENERGY

CUT  
AT TANK BATTERY

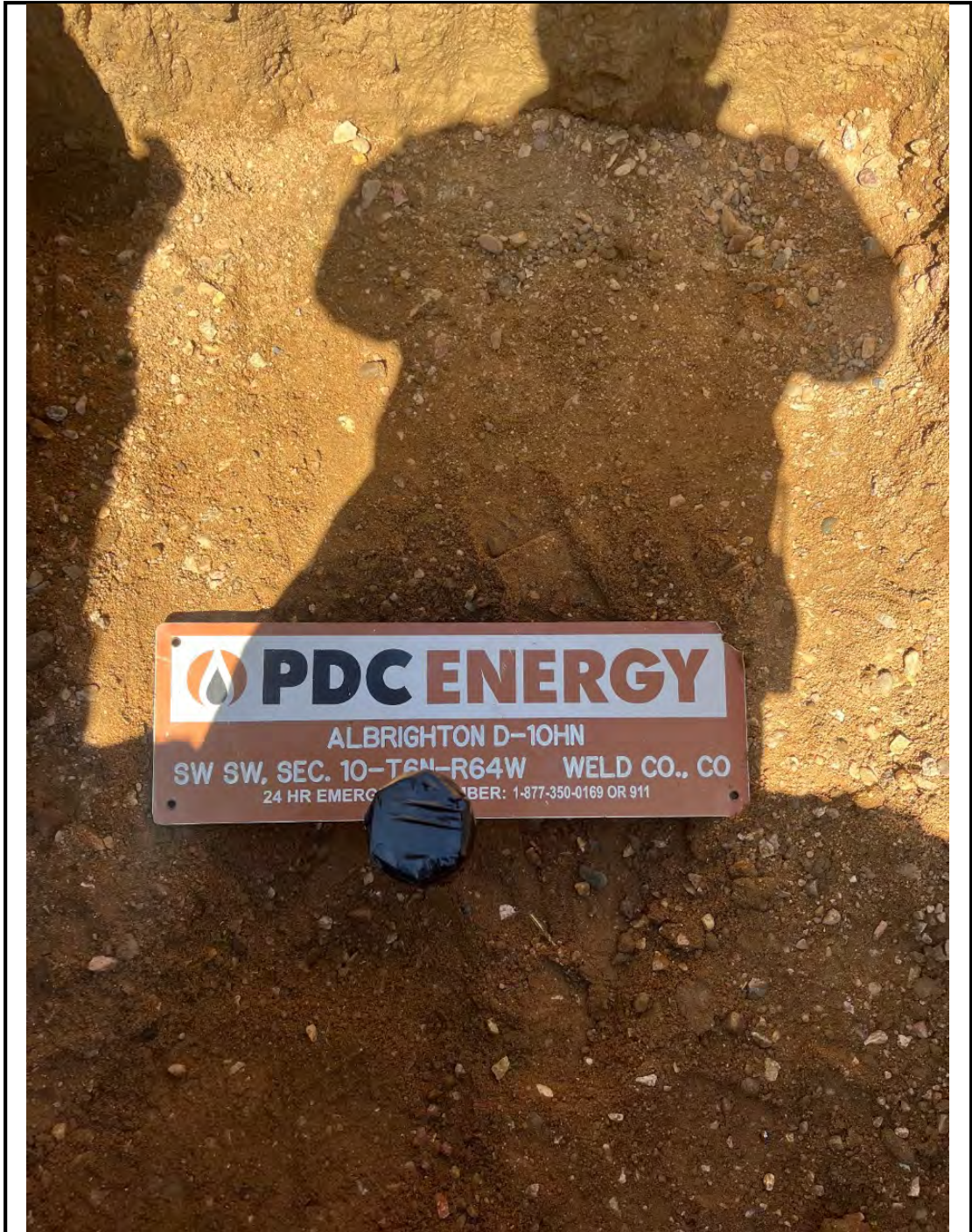


NOTE:

**PDC ENERGY FLOWLINE ABANDONMENT  
INSPECTION PHOTO LOG  
INSPECTION DATE: 3/13/2025**

Albrighton D-10HN  
PDC ENERGY

**CAPPED  
AT WELLHEAD**



NOTE:

**CUT AND CAPPED  
AT WELLHEAD**



NOTE:

**FLUID EVACUATION  
AT WELLHEAD**



NOTE:

**PDC ENERGY FLOWLINE ABANDONMENT  
INSPECTION PHOTO LOG  
INSPECTION DATE: 3/13/2025**

Albrighton D-10HN  
PDC ENERGY

**CUT AND FILLED  
AT WELLHEAD**



**NOTE:**

**PDC ENERGY FLOWLINE ABANDONMENT  
INSPECTION PHOTO LOG  
INSPECTION DATE: 3/13/2025**

Albrighton D-10HN  
PDC ENERGY

**CUT AND CAPPED  
AT TANK BATTERY**



**NOTE:**