

Form 19 Data Package

Amoco 44-17
Remediation #: 38361



Prepared for:
Extraction Oil & Gas - 10459

February 5, 2025

N2S2SE Sec 17 1S 65W

Facility ID: 320283
API #: 001-08859

Photograph Log



Photographic Log

Site Name: Amoco 44-17 (Rem# 38361)

Photographer: C. Pursell / Stantec Consulting Services Inc.

Date: February 4, 2025



Photo #1 View of the wellhead floor sample location

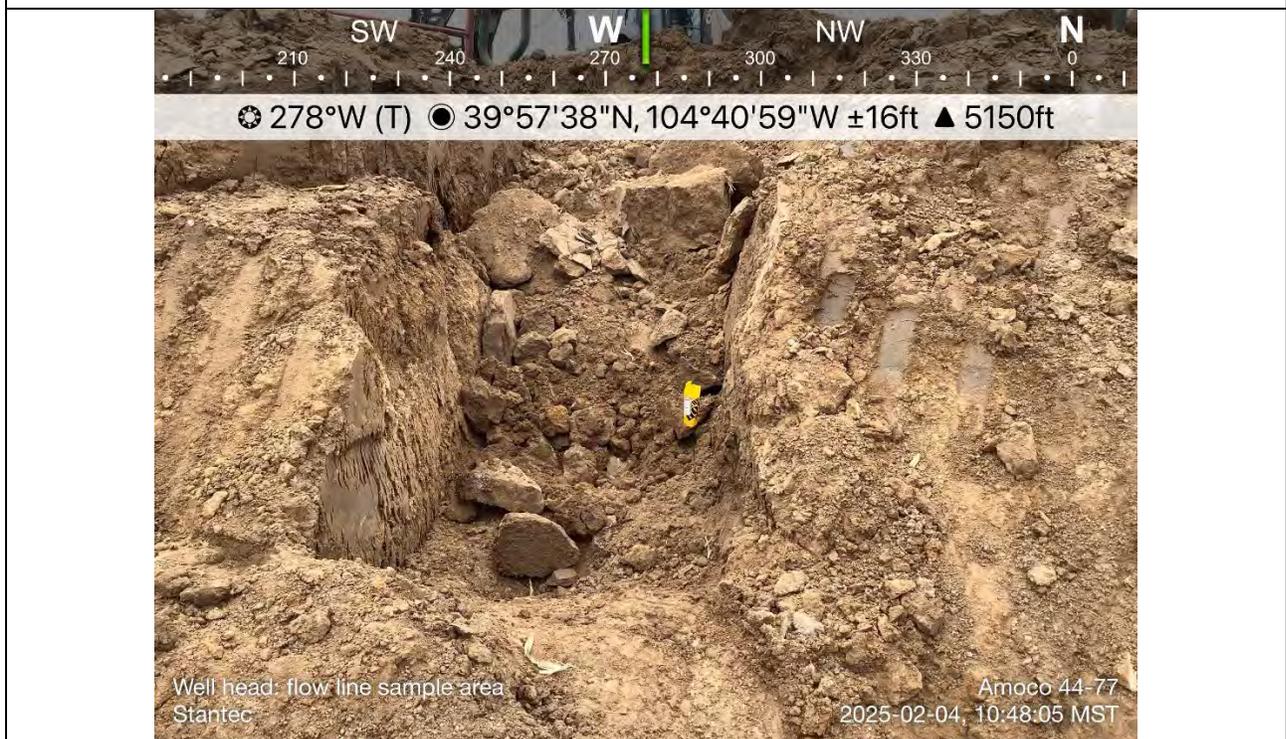


Photo #2 View of the well head flow line sample location

Photographic Log

Site Name: Amoco 44-17 (Rem# 38361)

Photographer: C. Pursell / Stantec Consulting Services Inc.

Date: February 4, 2025



Photo #3 View of the flowline @ separator sample location



Photo #4 View of the AST sample area

Photographic Log

Site Name: Amoco 44-17 (Rem# 38361)

Photographer: C. Pursell / Stantec Consulting Services Inc.

Date: February 4, 2025



Photo #5 View of the separator sample



Photo #6 View of the produced water vessel sample locations

Photographic Log

Site Name: Amoco 44-17 (Rem# 38361)

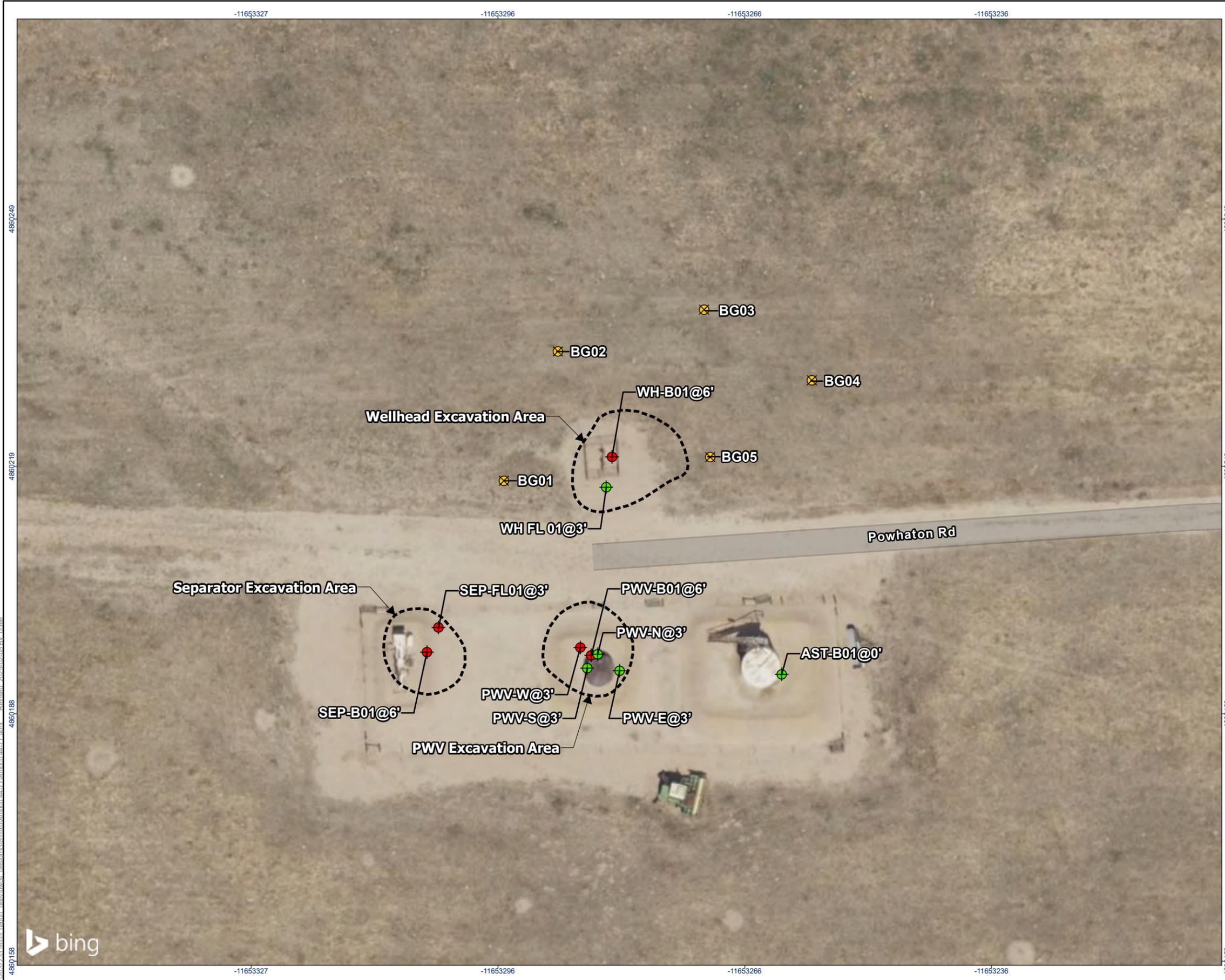
Photographer: C. Pursell / Stantec Consulting Services Inc.

Date: February 4, 2025



Figure

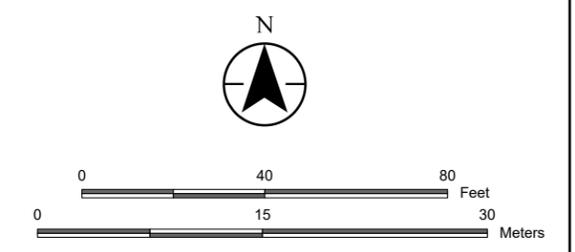




- Approximate Excavation Extents
- ⊠ Background Sample Location
- ◆ Soil Samples with Elevated PID readings, HC odor or staining
- ◆ Soil Samples without Elevated PID readings, HC odor or staining

Notes:
 Soil Sample Locations and Approximate Excavation Extents were collected using a Trimble R1 Data Collector. Serial Number GNSS:91585

HC - Hydrocarbon
 PID - Photoionization Detector



(At original document size of 11x17) 1:480

Notes
 1. Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere
 2. Background: World Terrain Base: Sources: Esri, USGS, NOAA
 Hybrid Reference Layer: Esri Community Maps Contributors, OpenStreetMap, Microsoft, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS
 World Terrain Reference: Sources: Esri, Garmin, USGS, NPS
 Bing Maps Aerial: © 2025 Microsoft Corporation © 2025 Maxar ©CNES (2025) Distribution Airbus DS



Project Location
 SEC 17-T1S-R65W
 ADAMS COUNTY, COLORADO

Drawn by CCL on 2025-02-05
 Reviewed by TF 2025-02-05
 203723362

Client/Project
 EXTRACTION OIL & GAS INC - 10459
 Amoco 44-17

Figure No.
 1

Title
 SOIL SAMPLE LOCATION MAP

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 4860188
 4860219
 4860249
 4860158



Tables



Table 1
Soil Sample Locations
Extraction Oil & Gas, Inc.
SITE NAME: Amoco 44-17
Remediation Project # 38361

Sample Name	Date	Depth (feet)	PID (ppm)	Latitude	Longitude	Accuracy Value	Lab (Y/N)
WH-B01 @ 6'	2/4/2025	6	5.8	39.960611	-104.683217	18" - 3.2'	Y
WH-FL01 @ 3'	2/4/2025	3	0.6	39.960585	-104.683223	18" - 3.2'	Y
SEP-FL01 @ 3'	2/4/2025	3	247.2	39.960445	-104.683422	18" - 3.2'	Y
SEP-B01 @ 6'	2/4/2025	6	556.7	39.960466	-104.683409	18" - 3.2'	Y
PWV-B01 @ 6'	2/4/2025	6	626.5	39.960443	-104.68324	18" - 3.2'	Y
PWV-N @ 3'	2/4/2025	3	71.5	39.960444	-104.683233	18" - 3.2'	Y
PWV-S @ 3'	2/4/2025	3	1.8	39.960432	-104.683244	18" - 3.2'	Y
PWV-E @ 3'	2/4/2025	3	23.8	39.96043	-104.683208	18" - 3.2'	Y
PWV-W @ 3'	2/4/2025	3	48.3	39.960449	-104.683252	18" - 3.2'	Y
AST-B01 @ 0'	2/4/2025	0	1.2	39.960427	-104.683028	18" - 3.2'	Y
BG01 @ 3'	2/4/2025	3	29.5	39.960591	-104.683337	18" - 3.2'	Y
BG01 @ 6'	2/4/2025	6	3.1	39.960591	-104.683337	18" - 3.2'	Y
BG02 @ 3'	2/4/2025	3	11.8	39.960701	-104.683277	18" - 3.2'	Y
BG02 @ 6'	2/4/2025	6	1.5	39.960701	-104.683277	18" - 3.2'	Y
BG03 @ 3'	2/4/2025	3	6.8	39.960736	-104.683115	18" - 3.2'	Y
BG03 @ 6'	2/4/2025	6	1.5	39.960736	-104.683115	18" - 3.2'	Y
BG04 @ 3'	2/4/2025	3	2.2	39.960676	-104.682995	18" - 3.2'	Y
BG04 @ 6'	2/4/2025	6	1.2	39.960676	-104.682995	18" - 3.2'	Y
BG05 @ 3'	2/4/2025	3	2.3	39.960611	-104.683108	18" - 3.2'	Y
BG05 @ 6'	2/4/2025	6	1.2	39.960611	-104.683108	18" - 3.2'	Y

Notes

PID photoionization detector
ppm parts per million
-- not measured / not applicable

Metals in Soils (mg/kg)												
arsenic	0.68	0.29	Pending									
barium	15000	82	Pending									
cadmium	71	0.38	Pending									
chromium (VI)	0.3	0.00067	Pending									
copper	3100	46	Pending									
lead	400	14	Pending									
nickel	1500	26	Pending									
selenium	390	0.26	Pending									
silver	390	0.8	Pending									
zinc	23000	370	Pending									

Notes

ECMC	Colorado Energy and Carbon Management Commission
RSSL	Residential Soil Screening Level
GWSSL	Protection of Groundwater Soil Screening Level
NA	not measured / not applicable
ppm	parts per million
TPH	total petroleum hydrocarbons
mg/kg	milligrams per kilogram
GRO	gasoline range organics
DRO	diesel range organics
ORO	oil range organics
EC	electrical conductivity
mmhos/cm	millimhos per centimeter
SAR	sodium adsorption ratio
mg/L	milligrams per liter
<	less than laboratory reporting limit
bold	result exceeds the applicable standard
bold	result exceeds the applicable standard

Table 3
Background Soil Sample Analytical Results
Extraction Oil & Gas, Inc.
SITE NAME: Amoco 44-17
Remediation Project # 38361

Constituent of Concern	ECMC Table 915-1 RSSL's	ECMC Table 915-1 GWSSL's	Results									
			BG01 @ 3'	BG01 @ 6'	BG02 @ 3'	BG02 @ 6'	BG03 @ 3'	BG03 @ 6'	BG04 @ 3'	BG04 @ 6'	BG05 @ 3'	BG05 @ 6'
Sample Name	--		BG01 @ 3'	BG01 @ 6'	BG02 @ 3'	BG02 @ 6'	BG03 @ 3'	BG03 @ 6'	BG04 @ 3'	BG04 @ 6'	BG05 @ 3'	BG05 @ 6'
Date	--		2/4/2025	2/4/2025	2/4/2025	2/4/2025	2/4/2025	2/4/2025	2/4/2025	2/4/2025	2/4/2025	2/4/2025
PID (ppm)	--		29.5	3.1	11.8	1.5	6.8	1.5	2.2	1.2	2.3	1.2
Depth (feet)	--		3	6	3	6	3	6	3	6	3	6
Soil Suitability for Reclamation												
EC (mmhos/cm)	4		Pending									
SAR (ratio)	6		Pending									
pH (units)	6-8.3		Pending									
boron (mg/L)	2		Pending									
Metals in Soils (mg/kg)												
arsenic	0.68	0.29	Pending									
barium	15000	82	Pending									
cadmium	71	0.38	Pending									
chromium (VI)	0.3	0.00067	Pending									
copper	3100	46	Pending									
lead	400	14	Pending									
nickel	1500	26	Pending									
selenium	390	0.26	Pending									
silver	390	0.8	Pending									
zinc	23000	370	Pending									

Notes

ECMC	Colorado Energy and Carbon Management Commission
RSSL	Residential Soil Screening Level
GWSSL	Protection of Groundwater Soil Screening Level
--	not measured / not applicable
ppm	parts per million
mg/kg	milligrams per kilogram
EC	electrical conductivity
mmhos/cm	millimhos per centimeter
SAR	sodium adsorption ratio
mg/L	milligrams per liter
<	less than laboratory reporting limit
bold	result exceeds the applicable standard
bold	result exceeds the applicable standard