



CDH Consulting, LLC
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Wellhead Closure Investigation and Environmental Summary

DEVRIES STATE A36-23 Wellhead
ECMC Remediation Project #33247
Weld County, Colorado

Attachments:

Field Form

Boring Logs

Figure 1 – Site Location Map

Figure 2 – Soil Sample and Field Screening Locations 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: DEVRIES STATE A36-23 / REM #33247								DATE: 12/16/25	WEATHER: 65F, Sunny	
TYPE OF WORK: Wellhead Cut & Cap								CLIENT: Noble Energy Inc.		
LAT/LONG: 40.439494, -104.493336								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	
12/16/2025	WH01@5'	SP	1.1	N	N	13:41	Y	Buried or Partially Buried Vessel	0	
12/16/2025	WH01-N@4'	SP	0.8	N	N	13:42	N	Separator	0	
12/16/2025	WH01-S@4'	SP	0.2	N	N	13:43	N	Emission Control Device (ECD)	0	
12/16/2025	WH01-E@4'	SP	0.4	N	N	13:44	N	Dump Line	0	
12/16/2025	WH01-W@4'	SP	0.4	N	N	13:45	N	Wellhead	1	
12/16/2025	BKG01@4.5'	SP	0.0	N	N	13:43	Y	Flowline	1	
12/16/2025	BKG02@4.5'	SP	0.0	N	N	14:03	Y	Third Party Equipment:	0	
12/16/2025	BKG03@4.5'	SP	0.1	N	N	13:52	Y	Other:	0	
12/16/2025	FL01-R@4'	SP	0.4	N	N	13:40	Y	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:		

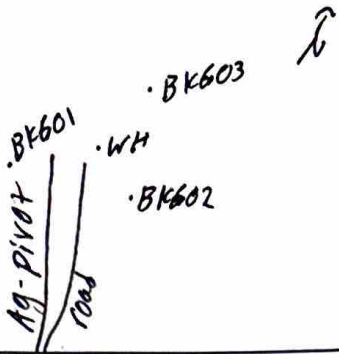




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BORING LOGS

Location Map:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: BK601	Project: Devries State A36-23
Date: 12/16/25	Client: Chevron
Logged By: Nathan Ingebritson	Drilled By: CDH
Drilling Method: Hand Auger	Sampling Method: Continuous

Elevation: 4630'	Detector: Mini raе 3000	Seal: N/A	Grout: N/A
Gravel Pack: N/A	Casing Type: N/A	Diameter: N/A	Hole Diameter: 3.25"
Screen Type: N/A	Slot: N/A	Diameter: N/A	Depth to Liquid: N/A
		Length: N/A	Depth to Water: N/A
		Length: N/A	Total Depth: 4.5'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
					0			0-4.5' SP compacted SP soil from 0-1'; became more loose after 1' to 4.5'	
					1				
	Dry	0.0	NO	1	2	1			
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15				

Location Map:

*See me as
on BK601109*



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>BK602</i>	Project: <i>Devries State A36-23</i>
Date: <i>12/16/25</i>	Client: Chevron
Logged By: <i>Nathan Ingebritson</i>	Drilled By: CDH

Elevation: <i>4630'</i>	Detector: <i>Mini rae 3000</i>	Drilling Method: Hand Auger	Sampling Method: Continuous
----------------------------	-----------------------------------	--------------------------------	--------------------------------

Gravel Pack: N/A	Seal: N/A	Grout: N/A
---------------------	--------------	---------------

Casing Type: N/A	Diameter: N/A	Length: N/A	Hole Diameter: 3.25"	Depth to Liquid: <i>N/A</i>
---------------------	------------------	----------------	-------------------------	--------------------------------

Screen Type: N/A	Slot: N/A	Diameter: N/A	Length: N/A	Total Depth: <i>4.5'</i>	Depth to Water: <i>N/A</i>
---------------------	--------------	------------------	----------------	-----------------------------	-------------------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
					0				
					1				
	<i>DRY</i>	<i>0.0</i>	<i>NO</i>	<i>1</i>	2	<i>1</i>		<i>0-4.5' compacted SP soil from SP 0-1' became more loose after 1' to 4.5'</i>	
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15				

Location Map:

Same as on BK601 log



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: BK603	Project: Devries State A38-23
Date: 12/16/25	Client: Chevron
Logged By: Nathan Engebritson	Drilled By: CDH
Elevation: 4630'	Detector: Mini roe 3000
Drilling Method: Hand Auger	Sampling Method: Continuous
Gravel Pack: N/A	Seal: N/A
Casing Type: N/A	Grout: N/A
Screen Type: N/A	Slot: N/A
Diameter: N/A	Length: N/A
Hole Diameter: 3.25"	Depth to Liquid: N/A
Diameter: N/A	Length: N/A
Total Depth: 4.5'	Depth to Water: N/A

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
					0			Compacted SP soil from 0-1', became more loose after 1" to 4" ^{NB} 4.5'.	
	DRY	0.1	NO	1	1		0-4.5' SP		
					2				
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15				



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FIGURES

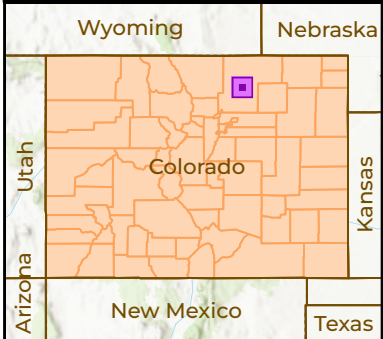
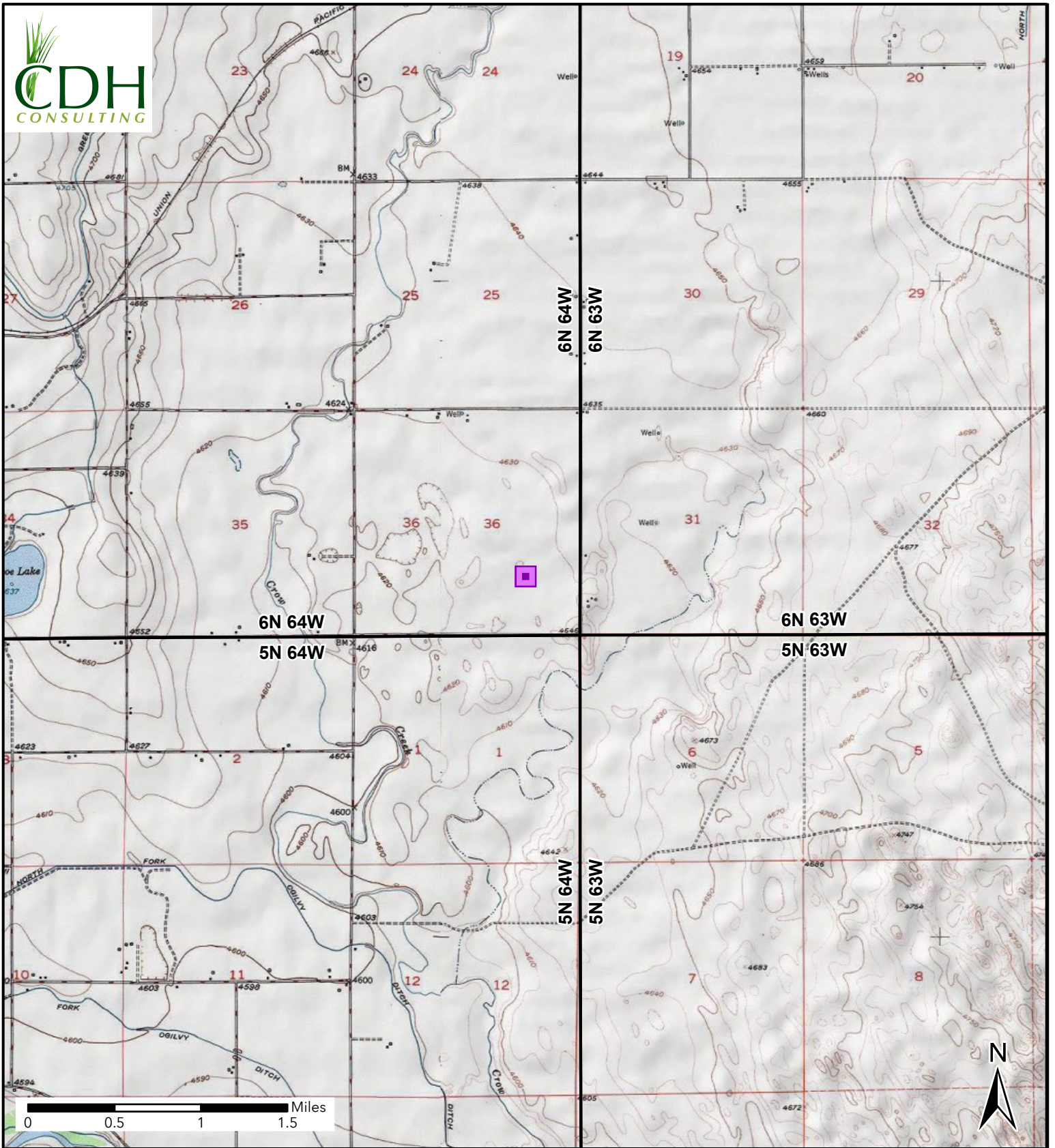
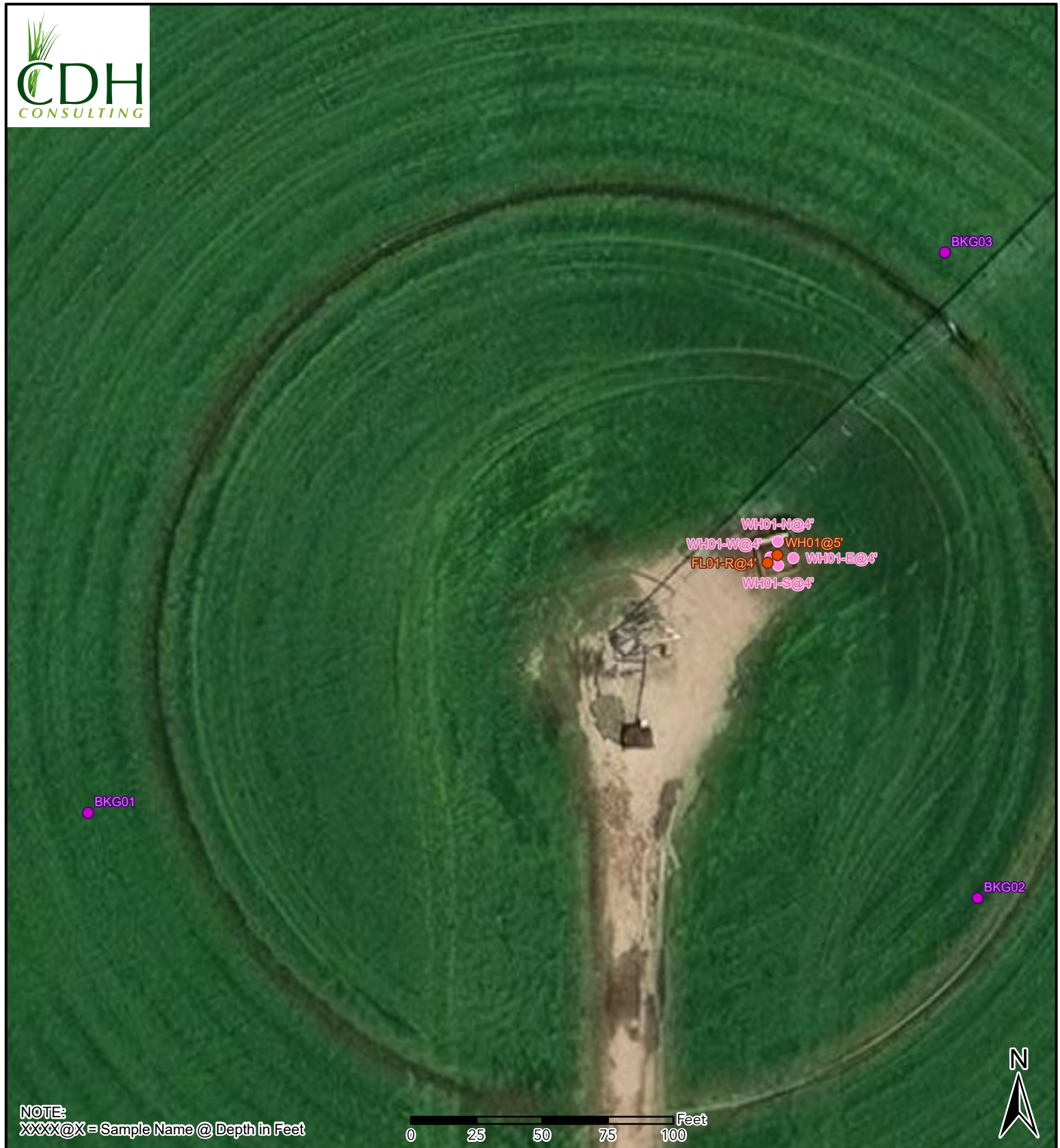


Figure 1
Site Location Map
DEVRIES STATE A 36-23
 NESE-SEC 36-T6N-R64W
 Weld County, Colorado
 Noble Energy Inc

 Site Location



NOTE:
 XXXX@X = Sample Name @ Depth in Feet

0 25 50 75 100 Feet



Figure 2
Soil Sample and Field
Screening Locations Map
 DEVRIES STATE A36-23
 NESE-SEC 36-T6N-R64W
 Weld County, Colorado
 Noble Energy Inc.

- Soil Sample
- Screening Point
- Background Sample



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TABLES

**TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE 100322
DEVRIES STATE A36-23, WELD COUNTY, COLORADO
REM # 33247**

Sample ID	Sample Date	Depth (ft)	GPS Data		PDOP Value	VOC Concentration (ppm)	Consultant Who Collected Samples
			Latitude	Longitude			
WH01@5'	12/16/2025	5	40.439497	-104.493356	1.000000	1.1	CDH
WH01-N@4'	12/16/2025	4	40.439511	-104.493356	1.000000	0.8	CDH
WH01-S@4'	12/16/2025	4	40.439486	-104.493355	1.000000	0.2	CDH
WH01-E@4'	12/16/2025	4	40.439494	-104.493335	1.000000	0.4	CDH
WH01-W@4'	12/16/2025	4	40.439494	-104.493366	1.000000	0.4	CDH
BKG01@4.5'	12/16/2025	4.5	40.439232	-104.494302	1.000000	0.0	CDH
BKG02@4.5'	12/16/2025	4.5	40.439137	-104.493085	1.000000	0.0	CDH
BKG03@4.5'	12/16/2025	4.5	40.439812	-104.493125	1.600000	0.1	CDH
FL01-R@4'	12/16/2025	4	40.439489	-104.493370	1.000000	0.4	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

ft = Feet

TABLE 2
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE 100322
DEVRIES STATE A36-23, WELD COUNTY, COLORADO
REM # 33247

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-R@4'	12/16/2025	4	<0.011	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0023	34.2	<0.21	13.7	20.5
WH01@5'	12/16/2025	5	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	23.07	<0.20	6.57	16.5

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
NOBLE 100322
DEVRIES STATE A36-23, WELD COUNTY, COLORADO
REM # 33247

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-R@4'	12/16/2025	4	<0.0045	<0.0045	<0.0057	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045
WH01@5'	12/16/2025	5	<0.0039	<0.0039	<0.0049	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	0.0053

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
NOBLE 100322
DEVRIES STATE A36-23, WELD COUNTY, COLORADO
REM # 33247

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-R@4'	12/16/2025	4	7.65	0.86	1.66	<0.25
WH01@5'	12/16/2025	5	8.08	0.87	2.13	<0.25
BKG01@4.5'	12/16/2025	4.5	8.32	0.93	3.44	<0.25
BKG02@4.5'	12/16/2025	4.5	7.78	1.4	4.21	<0.25
BKG03@4.5'	12/16/2025	4.5	8.04	2.2	6.51	<0.25
Maximum Background Concentration			8.32	2.2	6.51	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
NOBLE 100322
DEVRIES STATE A36-23, WELD COUNTY, COLORADO
REM # 33247

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-R@4'	12/16/2025	4	1.7	51.3	0.30	<0.47**	6.8	5.5	3.6	<0.21	<0.11	29.7
WH01@5'	12/16/2025	5	2.5	60.2	0.21	<0.42**	6.1	4.9	3.3	0.21	<0.096	21.2
BKG01@4.5'	12/16/2025	4.5	2.1	55.8	<0.10	<0.44**	2.5	3.4	2.6	<0.21	<0.10	11.7
BKG02@4.5'	12/16/2025	4.5	2.4	64.6	<0.10	<0.43**	3.3	3.9	3.4	<0.20	<0.10	13.8
BKG03@4.5'	12/16/2025	4.5	2.1	75.9	<0.11	<0.42**	3.3	4.4	3.5	<0.21	<0.11	13.9
1.25x Maximum Background Concentration			3.0	94.9	NA	NA	4.1	5.5	4.4	NA	NA	17.4

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

** Indicates laboratory reporting limit in excess of SSL

NA = Not analyzed



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PHOTOGRAPHIC LOG

Photographic Log

DEVRIES STATE A36-23 (REM #33247)

Noble Energy, Inc.

12/16/2025



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

Photographic Log

DEVRIES STATE A36-23 (REM #33247)

Noble Energy, Inc.

12/16/2025

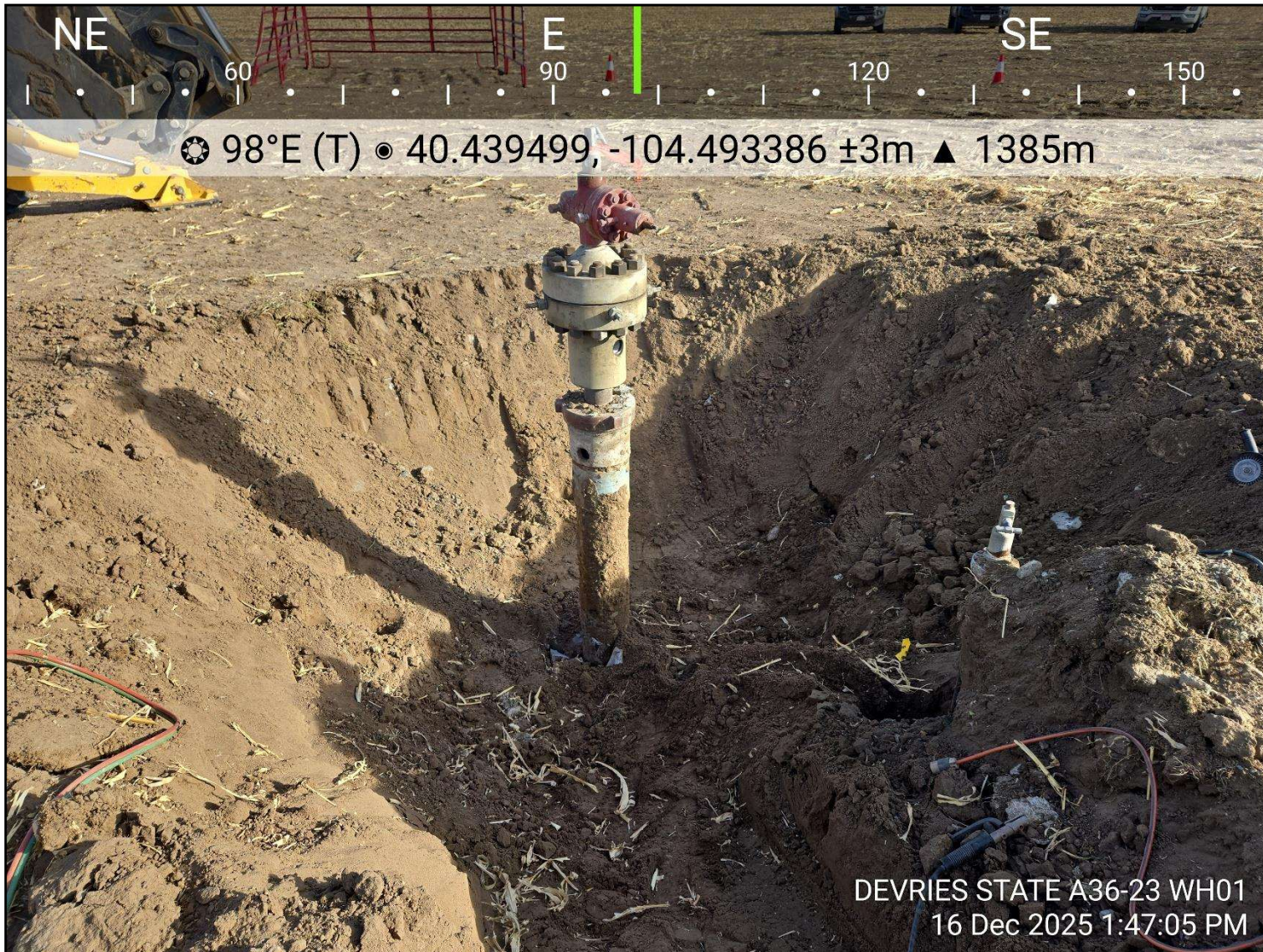


Photo 2: View of wellhead excavation extent, facing east

Photographic Log

DEVRIES STATE A36-23 (REM #33247)

Noble Energy, Inc.

12/16/2025



Photo 3: View of wellhead excavation extent, facing northeast

Photographic Log

DEVRIES STATE A36-23 (REM #33247)

Noble Energy, Inc.

12/16/2025



Photo 4: View of wellhead excavation extent, facing north

Photographic Log

DEVRIES STATE A36-23 (REM #33247)

Noble Energy, Inc.

12/16/2025



Photo 5: View of wellhead excavation extent, facing southeast

Photographic Log

DEVRIES STATE A36-23 (REM #33247)

Noble Energy, Inc.

12/16/2025

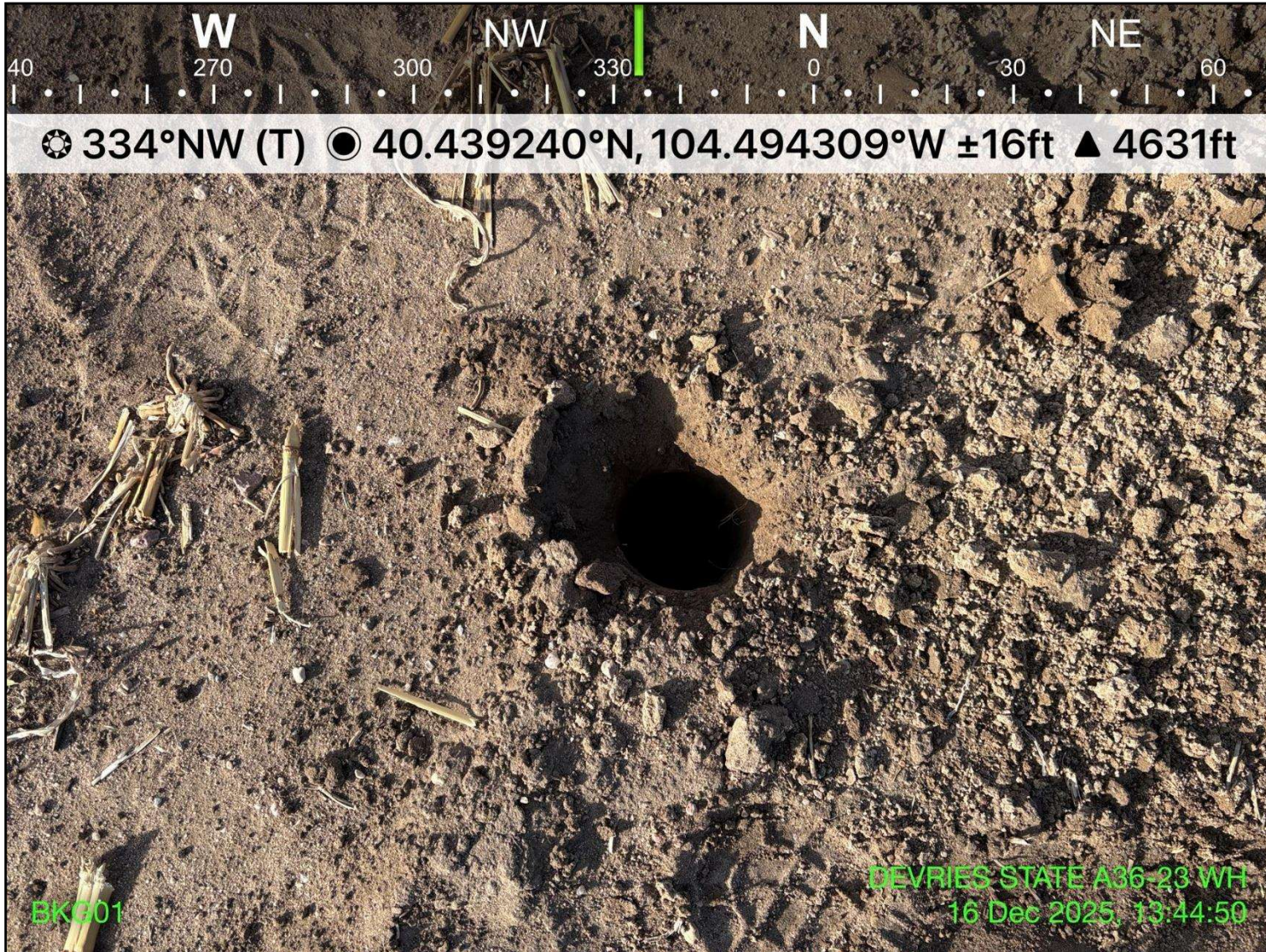


Photo 6: View of BKG01 sample location, facing north-northwest

Photographic Log

DEVRIES STATE A36-23 (REM #33247)

Noble Energy, Inc.

12/16/2025

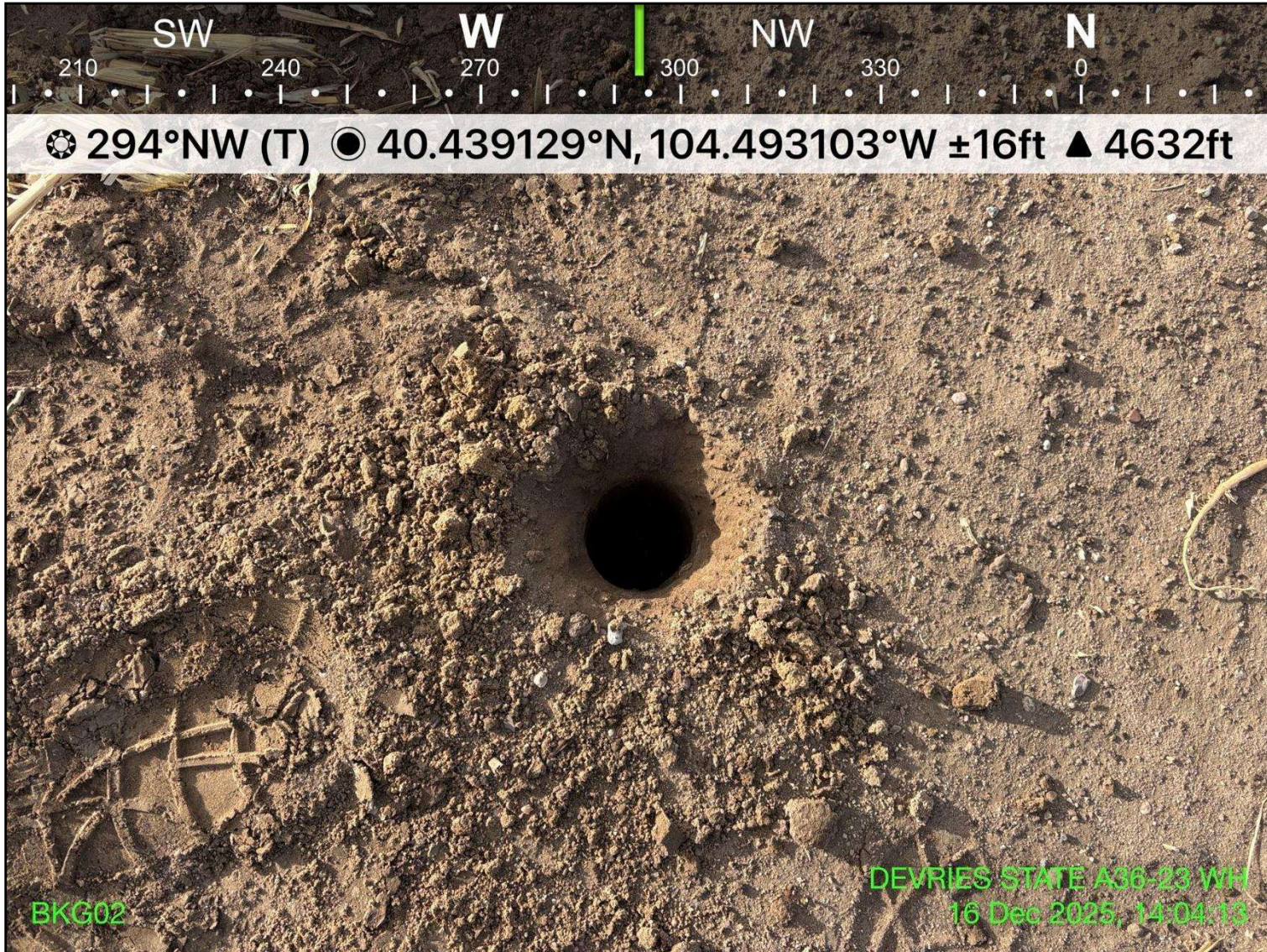


Photo 7: View of BKG02 sample location, facing west-northwest

Photographic Log

DEVRIES STATE A36-23 (REM #33247)

Noble Energy, Inc.

12/16/2025

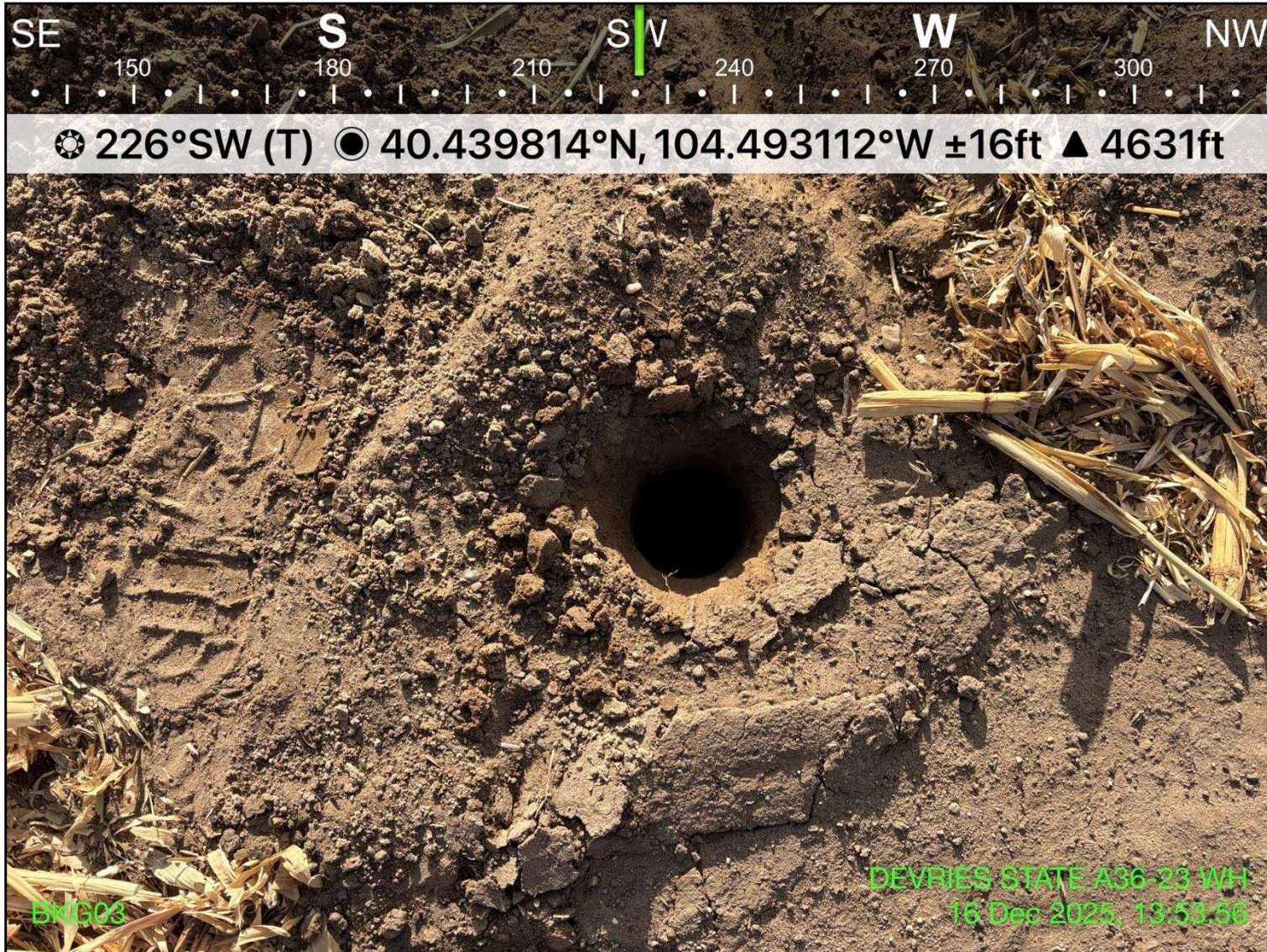


Photo 8: View of BKG03 sample location, facing southwest



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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: DEVRIES STATE A36-23 / #293331		Date: 12/16/2025						Remediation Project #: 33247	
Associated Wells: DEVRIES STATE A36-23		Age of Site: 11/11/2007 (Spud date)						Number of Photos Attached: 5	
Location: 40.439494, -104.493336							Estimated Facility Size (acres): ~0.1		
General Condition of Site: Good - Agricultural land									
USCS Soil Type: Poorly-graded Sands (SP)				Estimated Depth to Groundwater: Groundwater not encountered					
Hydrocarbon Impacted Soils / Spills: None observed									
Salt Crusted Soils or Impacted Vegetation: None observed									
Wellhead(s)									
Well API	123-26477								
Age	11/11/2007 (Spud date)								
Condition of surface around wellhead	Good, no staining								
PID Readings	0.2 ppm - 1.1 ppm								
Condition of subsurface	Good, no staining								
PID Readings	0.2 ppm - 1.1 ppm								
Sample taken? Location/Sample ID#	WH01@5', FL01-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: 1.1 ppm				Total number of samples submitted to lab for analysis: 2					
If more than 10 cubic yards of impacted soil were observed: N/A									
Vertical extent:				Estimated spill volume:					
Lateral extent:				Volume of soil removed:					
Is additional investigation required?									
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:									