

**SITE ASSESSMENT REPORT**  
**HOUNDSKEEPER H1-17 FACILITY**  
**ECMC SPILL TRACKING # 485976**  
**ECMC REMEDIATION # 31352**

Prepared for:

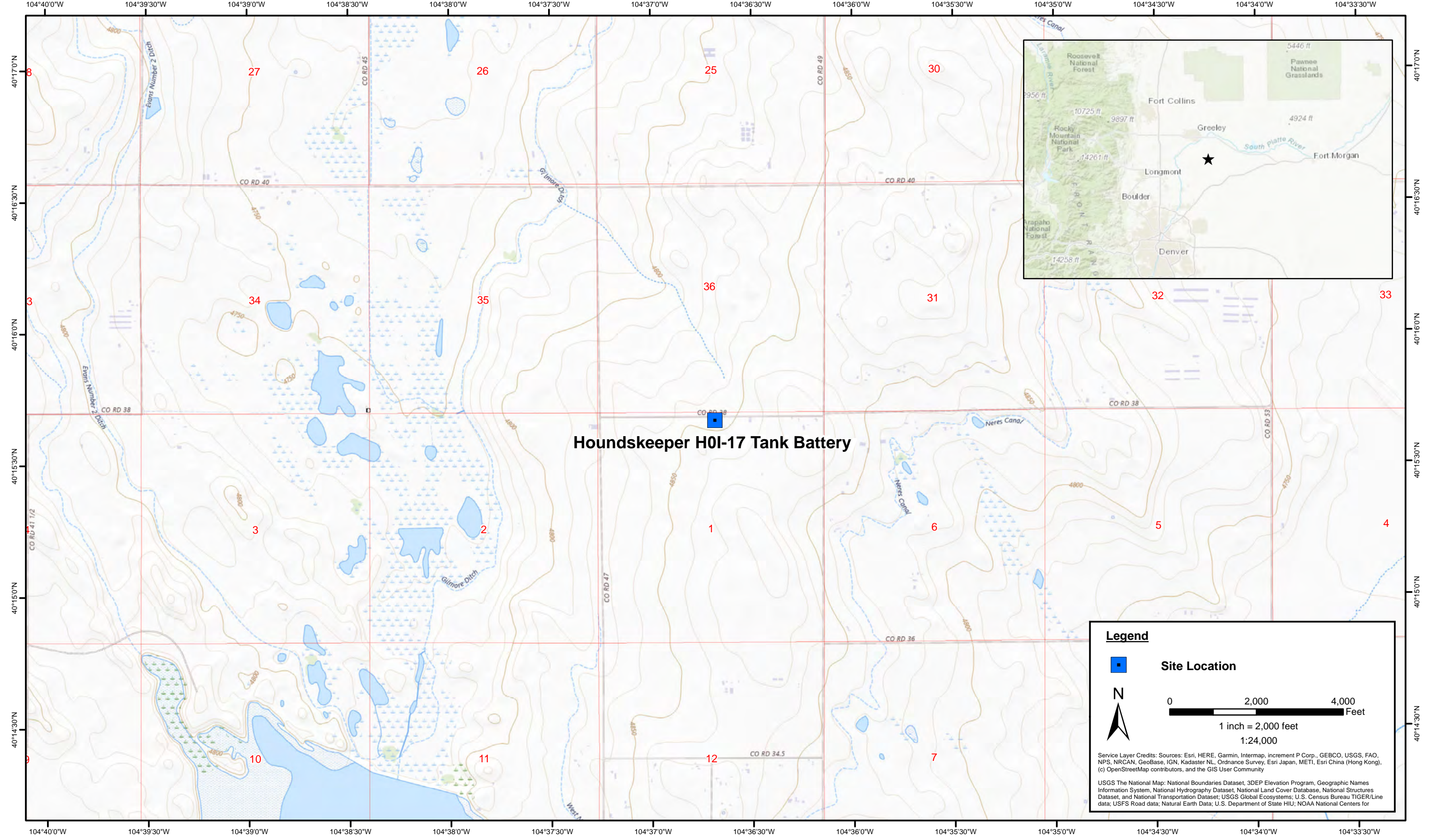


1099 18th Street  
Suite 1500  
Denver, CO 80202

Prepared by:



4725 Independence Street  
Wheat Ridge, CO 80033



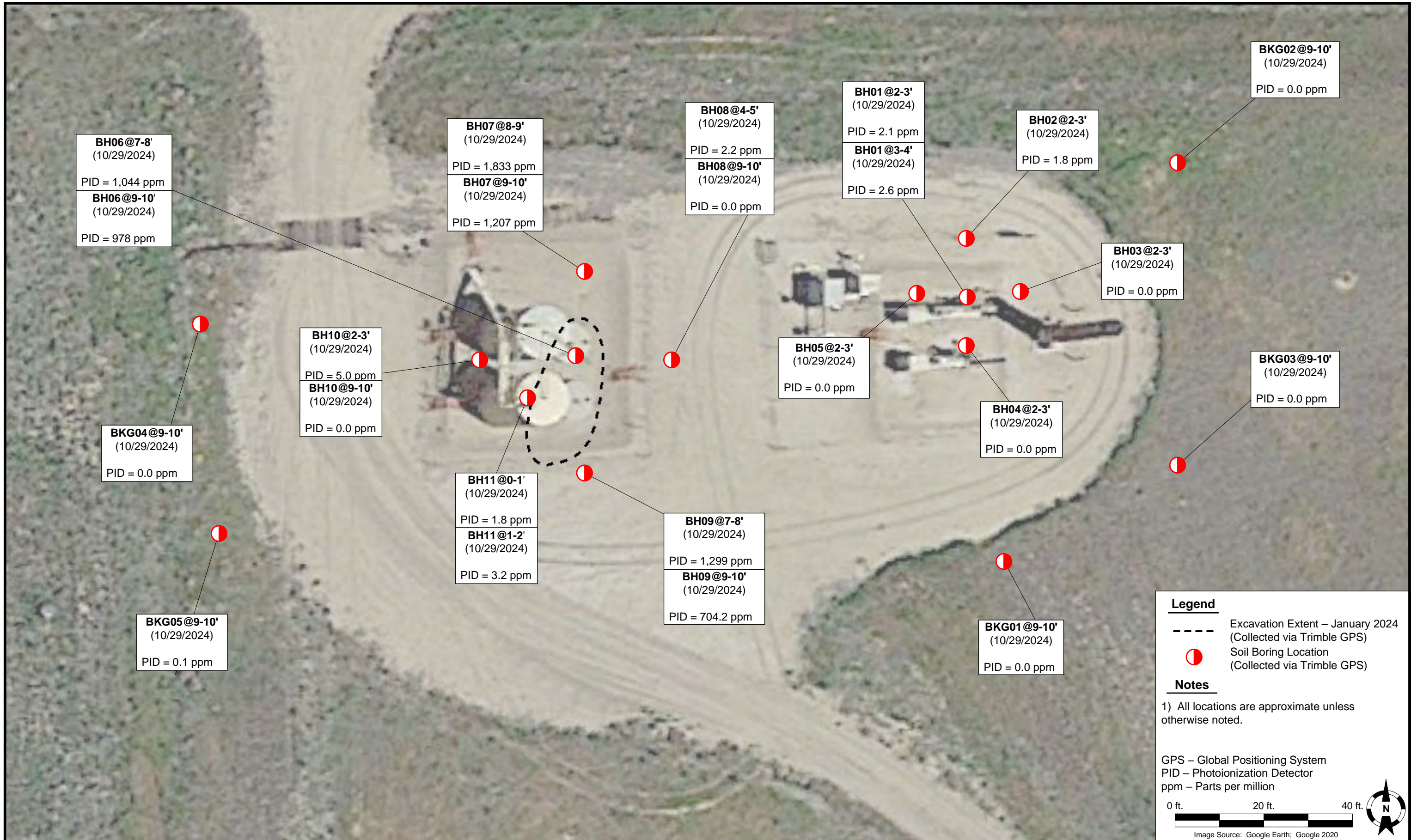
DATE:	January 2024
DESIGNED BY:	J. Whritenour
DRAWN BY:	L. Reed

Tasman, Inc.  
4725 Independence St.  
Wheat Ridge, CO 80033

**Noble Energy, Inc - 100322 - DJ Basin**  
**Houndskeeper HOI-17 Tank Battery**  
 NWNE, Section 1, Township 3 North, Range 65 West  
 Weld County, Colorado

Site Location Map

**Figure**  
1



**Legend**

- Excavation Extent – January 2024 (Collected via Trimble GPS)
- Soil Boring Location (Collected via Trimble GPS)

**Notes**

1) All locations are approximate unless otherwise noted.

GPS – Global Positioning System  
 PID – Photoionization Detector  
 ppm – Parts per million

0 ft. 20 ft. 40 ft.

Image Source: Google Earth; Google 2020

DATE: July 11, 2025

DESIGNED BY: J. Whritenour

DRAWN BY: M. Reynolds



**Tasman, Inc.**  
 4725 Independence Street  
 Wheat Ridge, CO 80033

**Noble Energy, Inc. – 100322 – DJ Basin**  
**Houndskeeper H01-17 Facility**  
 NWNE, Section 1, Township 3 North, Range 65 West  
 Weld County, Colorado

**SOIL BORING LOCATION MAP**  
 (10/29/2024)



**Legend**

- Soil Boring Location (Collected via Trimble GPS)
- Excavation Extent – January 2024 (Collected via Trimble GPS)

**Notes**

1) All locations are approximate unless otherwise noted.

GPS – Global Positioning System  
 PID – Photoionization Detector  
 ppm – Parts per million

0 ft. 50 ft. 100 ft.

Image Source: Google Earth; Google 2020

DATE: June 30, 2025

DESIGNED BY: J. Whritenour

DRAWN BY: S. Krauszer



**Tasman, Inc.**  
 4725 Independence Street  
 Wheat Ridge, CO 80033

**Noble Energy, Inc. – 100322**  
**Houndskeeper H01-17 Facility**  
 NWNE, Section 1, Township 3 North, Range 65 West  
 Weld County, Colorado

**SOIL BORING LOCATION MAP**  
 (11/05/2024, 11/14/2024)

**FIGURE 3**

**TABLE 1**  
**FIELD DATA SUMMARY TABLE**  
**NOBLE ENERGY, INC. - 100322**  
**HOUNDSKEEPER H01-17 FACILITY, WELD COUNTY, COLORADO**  
**REM # 31352**

Sample ID	Sample Date	Depth (ft. bgs)	GPS Data Latitude/Longitude		PDOP Value	VOC Concentration (ppm)
<i>January 2024 Initial Decommissioning</i>						
AST01@0-6"	1/24/2024	0-0.5	40.261256	-104.611395	1.0	0.0
AST02@0-6"	1/24/2024	0-0.5	40.261219	-104.611398	1.0	0.1
Flare01@0-6"	1/24/2024	0-0.5	40.261256	-104.610982	0.7	0.0
FS01@3'	1/24/2024	3	40.261239	-104.611359	0.9	102.2
FS02@3'	1/24/2024	3	40.261219	-104.611360	1.0	1.6
MH01@0-6"	1/24/2024	0-0.5	40.261273	-104.611139	0.7	5.8
MH02@0-6"	1/24/2024	0-0.5	40.261293	-104.611134	1.1	0.7
SEP01-DL@2'	1/24/2024	2	40.261265	-104.611075	0.9	0.1
SEP01-FL@2'	1/24/2024	2	40.261279	-104.611031	0.7	0.0
SEP02-DL@2'	1/24/2024	2	40.261239	-104.611079	0.8	0.1
SEP02-FL@2'	1/24/2024	2	40.261247	-104.611037	0.8	0.1
SS01@2'	1/24/2024	2	40.261257	-104.611348	0.9	0.2
SS02@2'	1/24/2024	2	40.261242	-104.611334	0.9	233.3
SS03@2'	1/24/2024	2	40.261215	-104.611332	0.9	113.4
SS04@2'	1/24/2024	2	40.261172	-104.611371	0.9	2.8
SS05@2'	1/24/2024	2	40.261192	-104.611374	0.8	110.1
SS06@2'	1/24/2024	2	40.261220	-104.611366	1.1	0.1
<i>October - November 2024 Supplemental Site Assessment</i>						
BH01@2-3'	10/29/2024	2-3	40.261273	-104.611034	1.0	2.1
BH01@3-4'	10/29/2024	3-4	40.261273	-104.611034	1.0	2.6
BH02@2-3'	10/29/2024	2-3	40.261310	-104.611034	1.0	1.8
BH03@2-3'	10/29/2024	2-3	40.261278	-104.610990	1.0	0.0
BH04@2-3'	10/29/2024	2-3	40.261243	-104.611034	1.0	0.0
BH05@2-3'	10/29/2024	2-3	40.261276	-104.611074	1.0	0.0
BH06@7-8'	10/29/2024	7-8	40.261238	-104.611351	1.3	1,044
BH06@9-10'	10/29/2024	9-10	40.261238	-104.611351	1.3	978
BH07@8-9'	10/29/2024	8-9	40.261289	-104.611346	1.3	1,833
BH07@9-10'	10/29/2024	9-10	40.261289	-104.611346	1.3	1,207
BH08@4-5'	10/29/2024	4-5	40.261237	-104.611276	1.3	2.2
BH08@9-10'	10/29/2024	9-10	40.261237	-104.611276	1.3	0.0
BH09@7-8'	10/29/2024	7-8	40.261166	-104.611346	1.3	1,299
BH09@9-10'	10/29/2024	9-10	40.261166	-104.611346	1.3	704.2
BH10@2-3'	10/29/2024	2-3	40.261234	-104.611434	1.3	5.0
BH10@9-10'	10/29/2024	9-10	40.261234	-104.611434	1.3	0.0
BH11@0-1'	10/29/2024	0-1	40.261214	-104.611396	1.3	1.8
BH11@1-2'	10/29/2024	1-2	40.261214	-104.611396	1.3	3.2
BH12@6-7'	11/05/2024	6-7	40.261296	-104.611347	1.1	1,517
BH12@23-24'	11/05/2024	23-24	40.261296	-104.611347	1.1	7.5
BH13@21-22'	11/05/2024	21-22	40.261337	-104.611353	0.8	1,110
BH13@23-24'	11/05/2024	23-24	40.261337	-104.611353	0.8	7.0
BH14@21-22'	11/05/2024	21-22	40.261291	-104.611286	1.0	1,108
BH14@23-24'	11/05/2024	23-24	40.261291	-104.611286	1.0	2.5

Sample ID	Sample Date	Depth (ft. bgs)	GPS Data		PDOP Value	VOC Concentration (ppm)
			Latitude	Longitude		
BH15@22-23'	11/05/2024	22-23	40.261287	-104.611408	0.8	630
BH15@23-24'	11/05/2024	23-24	40.261287	-104.611408	0.8	9.9
BH16@21-22'	11/05/2024	21-22	40.261376	-104.611341	0.8	533
BH16@23-24'	11/05/2024	23-24	40.261376	-104.611341	0.8	5.6
BH17@28.5'	11/14/2024	28.5	40.261297	-104.611233	1.0	1,225
BH18@22'	11/14/2024	22	40.261289	-104.611465	0.8	690
BH18@27.5'	11/14/2024	27.5	40.261289	-104.611465	0.8	2.1
BH19@9'	11/14/2024	9	40.261165	-104.611356	0.8	1,733
BH19@28'	11/14/2024	28	40.261165	-104.611356	0.8	5.5
BH20@22.5'	11/14/2024	22.5	40.261281	-104.611655	0.8	523
BH20@28'	11/14/2024	28	40.261281	-104.611655	0.8	0.6
BH21@14'	11/14/2024	14	40.261058	-104.611383	0.8	0.8
BH21@20'	11/14/2024	20	40.261058	-104.611383	0.8	0.2
<i>Background Samples</i>						
BKG01@9-10'	10/29/2024	9-10	40.261112	-104.611007	1.3	0.0
BKG02@9-10'	10/29/2024	9-10	40.261356	-104.610863	1.0	0.0
BKG03@9-10'	10/29/2024	9-10	40.261168	-104.610862	1.0	0.0
BKG04@9-10'	10/29/2024	9-10	40.261258	-104.611659	1.3	0.0
BKG05@9-10'	10/29/2024	9-10	40.261132	-104.611647	1.3	0.1

**Notes:**

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum (NAD) 83 UTM Zone 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  
NOBLE ENERGY, INC. - 100322  
HOUNDSKEEPER H01-17 FACILITY, WELD COUNTY, COLORADO  
REM # 31352

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**		
<i>January 2024 Initial Decommissioning</i>													
AST01@0-6"	1/24/2024	0-0.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
AST02@0-6"	1/24/2024	0-0.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
FS01@3'	1/24/2024	3	0.013	<0.0050	0.0098	<0.010	<0.0050	<0.0050	<0.0038	3.4	3.4	<50	<50
FS02@3'	1/24/2024	3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SEP01-DL@2'	1/24/2024	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SEP01-FL@2'	1/24/2024	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SEP02-DL@2'	1/24/2024	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SEP02-FL@2'	1/24/2024	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SS01@2'	1/24/2024	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SS02@2'	1/24/2024	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.025	315	25	240	50
SS03@2'	1/24/2024	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	1.4	<50	<50
SS04@2'	1/24/2024	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	0.99	<50	<50
SS05@2'	1/24/2024	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	1.8	<50	<50
SS06@2'	1/24/2024	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
<i>October - November 2024 Supplemental Site Investigation</i>													
BH01@2-3'	10/29/2024	2-3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
BH01@3-4'	10/29/2024	3-4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
BH02@2-3'	10/29/2024	2-3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
BH03@2-3'	10/29/2024	2-3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
BH04@2-3'	10/29/2024	2-3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
BH05@2-3'	10/29/2024	2-3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
BH06@7-8'	10/29/2024	7-8	0.24	<0.0050	4.1	<0.010	<0.0050	<0.0050	0.30	2,491	1,100	1,300	91
BH06@9-10'	10/29/2024	9-10	0.10	<0.0050	0.68	<0.010	<0.0050	<0.0050	0.17	742	52	690	<50
BH07@8-9'	10/29/2024	8-9	0.52	<0.0050	10	85	81	61	0.46	6,430	2,600	3,600	230
BH07@9-10'	10/29/2024	9-10	0.75	<0.0050	10	68	76	54	0.47	6,360	2,400	3,700	260
BH08@4-5'	10/29/2024	4-5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
BH08@9-10'	10/29/2024	9-10	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
BH09@7-8'	10/29/2024	7-8	0.079	<0.0050	<0.0050	<0.010	<0.0050	0.0067	0.18	2,115	65	1,900	150
BH09@9-10'	10/29/2024	9-10	3.7	<0.0050	17	220	73	54	0.41	5,300	3,400	1,900	<50

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**		
BH10@2-3'	10/29/2024	2-3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
BH10@9-10'	10/29/2024	9-10	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
BH11@0-1'	10/29/2024	0-1	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
BH11@1-2'	10/29/2024	1-2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
BH12@6-7'	11/05/2024	6-7	1.9	<0.050	5.3	84	62	41	1.2	5,400	2,500	2,900	<50
BH12@23-24'	11/05/2024	23-24	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
BH13@21-22'	11/05/2024	21-22	0.045	<0.0050	0.16	0.11	0.47	0.81	0.064	292	32	260	<50
BH13@23-24'	11/05/2024	23-24	<0.0020	<0.0050	0.060	0.67	0.56	0.42	0.026	554	38	520	<50
BH14@21-22'	11/05/2024	21-22	<0.20	0.92	0.58	7.1	4.4	3.3	<0.38	550	300	250	<50
BH14@23-24'	11/05/2024	23-24	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
BH15@22-23'	11/05/2024	22-23	<0.0020	<0.0050	0.0071	0.066	0.050	0.024	0.0055	1.3	1.3	<50	<50
BH15@23-24'	11/05/2024	23-24	<0.0020	<0.0050	<0.0050	<0.010	0.0051	<0.0050	0.0044	<50	<0.50	<50	<50
BH16@21-22'	11/05/2024	21-22	<0.0020	<0.0050	0.069	0.77	0.29	0.20	0.014	64	64	<50	<50
BH16@23-24'	11/05/2024	23-24	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
BH17@28.5'	11/14/2024	28.5	<0.0020	<0.0050	<0.0050	0.023	0.091	0.053	0.0089	181.1	1.1	180	<50
BH18@22'	11/14/2024	22	<0.020	<0.050	1.3	16	15	12	0.47	770	580	190	<50
BH18@27.5'	11/14/2024	27.5	<0.0020	<0.0050	<0.0050	<0.010	0.0078	<0.0050	0.0091	<50	<0.50	<50	<50
BH19@9'	11/14/2024	9	7.3	<0.50	7.6	120	31	22	1.3	4,890	1,600	3,100	190
BH19@28'	11/14/2024	28	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.0040	<50	<0.50	<50	<50
BH20@22.5'	11/14/2024	22.5	0.64	<0.50	2.1	16	11	7.8	0.58	1,389	510	800	79
BH20@28'	11/14/2024	28	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
BH21@14'	11/14/2024	14	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
BH21@20'	11/14/2024	20	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50

**Notes:**

1. **Bold** values exceed the ECMC Table 915-1 limit(s).
2. Pink & 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.

ECMC = Energy & Carbon Management Commission

(<) = 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



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	1,800	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
BH13@21-22'	11/05/2024	21-22	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0103	<0.00500	<0.00500	<b>0.0936</b>	<b>0.239</b>
BH13@23-24'	11/05/2024	23-24	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<b>0.0192</b>	<b>0.0511</b>
BH14@21-22'	11/05/2024	21-22	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0102	<0.00500	<0.00500	<b>0.107</b>	<b>0.274</b>
BH14@23-24'	11/05/2024	23-24	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BH15@22-23'	11/05/2024	22-23	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<b>0.0128</b>	<b>0.0348</b>
BH15@23-24'	11/05/2024	23-24	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BH16@21-22'	11/05/2024	21-22	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<b>0.0128</b>	<b>0.0369</b>
BH16@23-24'	11/05/2024	23-24	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BH17@28.5'	11/14/2024	28.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0117
BH18@22'	11/14/2024	22	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00879	<0.00500	<0.00500	0.0830	<0.00500	0.00664	<b>0.661</b>	<b>1.80</b>
BH18@27.5'	11/14/2024	27.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BH19@9'	11/14/2024	9	<0.00500	0.102	<b>0.0460</b>	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0120	<0.00500	<0.00500	0.0190	<b>2.29</b>	<b>5.98</b>
BH19@28'	11/14/2024	28	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BH20@22.5'	11/14/2024	22.5	<0.00500	<0.00500	0.00698	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<b>0.442</b>	<b>1.19</b>
BH20@28'	11/14/2024	28	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BH21@14'	11/14/2024	14	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BH21@20'	11/14/2024	20	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

**Notes:**

- Bold** values exceed the ECMC Table 915-1 limit(s).
  - Pink & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL).
- ECMC = Colorado Energy & Carbon Management Commission  
(<) = Analytical result is less than the indicated laboratory reporting limit.  
ft. = Feet  
bgs = Below ground surface  
mg/kg = Milligrams per kilogram

**TABLE 4**  
**SUMMARY OF SOIL SUITABILITY FOR RECLAMATION**  
**NOBLE ENERGY, INC. - 100322**  
**HOUNDSKEEPER H01-17 FACILITY, WELD COUNTY, COLORADO**  
**REM # 31352**

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
<i>January 2024 Initial Decommissioning</i>						
AST01@0-6"	1/24/2024	0-0.5	8.14	0.239	0.231	<2.00
AST02@0-6"	1/24/2024	0-0.5	5.64	0.0558	2.74	<2.00
FS01@3'	1/24/2024	3	7.25	0.461	0.520	<2.00
FS02@3'	1/24/2024	3	7.82	0.339	0.277	<2.00
SEP01-DL@2'	1/24/2024	2	7.93	2.37	0.976	<2.00
SEP01-FL@2'	1/24/2024	2	8.30	0.0194	0.253	<2.00
SEP02-DL@2'	1/24/2024	2	7.96	0.0776	0.357	<2.00
SEP02-FL@2'	1/24/2024	2	7.99	0.093	0.313	<2.00
SS01@2'	1/24/2024	2	8.10	0.138	0.129	<2.00
SS02@2'	1/24/2024	2	7.49	0.928	0.431	<2.00
SS03@2'	1/24/2024	2	7.72	0.152	0.196	<2.00
SS04@2'	1/24/2024	2	8.54	0.222	0.167	<2.00
SS05@2'	1/24/2024	2	7.64	1.01	0.367	<2.00
SS06@2'	1/24/2024	2	8.66	0.109	0.110	<2.00
<i>October - November 2024 Supplemental Site Investigation</i>						
BH01@2-3'	10/29/2024	2-3	8.21	0.375	0.193	<2.00
BH01@3-4'	10/29/2024	3-4	8.09	0.444	0.208	<2.00
BH02@2-3'	10/29/2024	2-3	8.45	0.204	0.0898	<2.00
BH03@2-3'	10/29/2024	2-3	8.21	0.265	0.112	<2.00
BH04@2-3'	10/29/2024	2-3	8.42	0.361	0.185	<2.00
BH05@2-3'	10/29/2024	2-3	8.28	0.248	0.0949	<2.00
BH06@7-8'	10/29/2024	7-8	8.54	0.280	2.31	<2.00
BH06@9-10'	10/29/2024	9-10	9.08	0.293	0.636	<2.00
BH07@8-9'	10/29/2024	8-9	8.46	0.292	1.88	<2.00
BH07@9-10'	10/29/2024	9-10	8.20	0.448	2.30	<2.00
BH08@4-5'	10/29/2024	4-5	8.37	0.302	0.794	<2.00
BH08@9-10'	10/29/2024	9-10	8.82	0.236	1.78	<2.00
BH09@7-8'	10/29/2024	7-8	8.43	0.366	2.87	<2.00
BH09@9-10'	10/29/2024	9-10	8.58	0.558	0.250	<2.00
BH10@2-3'	10/29/2024	2-3	8.19	0.184	0.184	<2.00
BH10@9-10'	10/29/2024	9-10	8.37	0.0802	0.480	<2.00
BH11@0-1'	10/29/2024	0-1	6.77	0.0562	0.0759	<2.00

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
BH11@1-2'	10/29/2024	1-2	6.17	1.02	0.0294	<2.00
BH12@6-7'	11/05/2024	6-7	<b>8.42</b>	0.249	1.40	<2.00
BH12@23-24'	11/05/2024	23-24	<b>8.54</b>	0.123	1.14	<2.00
BH13@21-22'	11/05/2024	21-22	<b>8.46</b>	0.229	1.49	<2.00
BH13@23-24'	11/05/2024	23-24	<b>8.93</b>	0.151	0.396	<2.00
BH14@21-22'	11/05/2024	21-22	<b>8.46</b>	0.284	1.82	<2.00
BH14@23-24'	11/05/2024	23-24	<b>8.44</b>	0.0984	0.278	<2.00
BH15@22-23'	11/05/2024	22-23	<b>8.81</b>	0.144	0.417	<2.00
BH15@23-24'	11/05/2024	23-24	8.22	0.0861	0.327	<2.00
BH16@21-22'	11/05/2024	21-22	<b>8.38</b>	0.126	1.33	<2.00
BH16@23-24'	11/05/2024	23-24	<b>8.79</b>	0.0963	0.638	<2.00
BH17@28.5'	11/14/2024	28.5	<b>8.47</b>	0.232	1.77	<2.00
BH18@22'	11/14/2024	22	8.20	0.280	2.01	<2.00
BH18@27.5'	11/14/2024	27.5	8.14	0.0765	0.210	<2.00
BH19@9'	11/14/2024	9	<b>8.86</b>	0.435	0.436	<2.00
BH19@28'	11/14/2024	28	<b>8.49</b>	0.202	1.07	<2.00
BH20@22.5'	11/14/2024	22.5	7.17	0.395	1.18	<2.00
BH20@28'	11/14/2024	28	<b>8.37</b>	0.135	0.237	<2.00
BH21@14'	11/14/2024	14	<b>8.46</b>	0.379	1.80	<2.00
BH21@20'	11/14/2024	20	7.60	0.237	1.34	<2.00
<i>Background Samples</i>						
BKG01@9-10'	10/29/2024	9-10	8.66	3.19	4.46	<2.00
BKG02@9-10'	10/29/2024	9-10	8.00	1.57	3.10	<2.00
BKG03@9-10'	10/29/2024	9-10	8.45	0.117	3.11	<2.00
BKG04@9-10'	10/29/2024	9-10	8.74	0.150	0.0583	<2.00
BKG05@9-10'	10/29/2024	9-10	8.90	0.135	0.923	<2.00
Maximum Background Concentration			8.90	-	-	-

**Notes:**

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.

ECMC = Colorado Energy & Carbon Management Commission

EC = Electrical conductivity

SAR = Sodium adsorption ratio

mmhos/cm = millimhos per centimeter

mg/L = milligram per liter

(<) = Analytical result is less than the indicated laboratory reporting limit.

ft. = Feet

bgs = Below ground surface

**TABLE 5**  
**SUMMARY OF METALS IN SOIL CHEMISTRY DATA**  
**NOBLE ENERGY, INC. - 100322**  
**HOUNDSKEEPER H01-17 FACILITY, WELD COUNTY, COLORADO**  
**REM # 31352**

Sample ID	Sample Date	Depth (ft. bgs)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) <sup>(4)</sup> (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	15,000	71	0.3	3,100	400	1,500	390	390	23,000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
<i>January 2024 Initial Decommissioning</i>												
AST01@0-6"	1/24/2024	0-0.5	3.52	104	<0.200	<0.30*	5.39	7.18	6.43	<0.260	0.0380	21.5
AST02@0-6"	1/24/2024	0-0.5	1.67	50.3	0.200	<0.30*	5.00	8.01	3.62	<0.260	0.0228	18.8
FS01@3'	1/24/2024	3	2.30	84.5	0.237	<0.30*	6.10	8.01	5.13	<0.260	0.0326	20.5
FS02@3'	1/24/2024	3	2.06	74.8	0.230	<0.30*	5.28	7.45	4.65	<0.260	0.0270	20.2
SEP01-DL@2'	1/24/2024	2	2.47	88.8	<0.200	<0.30*	4.81	7.06	5.09	<0.260	0.0239	19.3
SEP01-FL@2'	1/24/2024	2	1.78	47.1	<0.200	<0.30*	4.05	5.21	3.75	<0.260	<0.0200	14.8
SEP02-DL@2'	1/24/2024	2	2.35	73.0	<0.200	<0.30*	4.26	5.02	4.36	<0.260	<0.0200	19.2
SEP02-FL@2'	1/24/2024	2	2.78	64.0	0.219	<0.30*	5.00	6.00	4.41	<0.260	0.0233	17.0
SS01@2'	1/24/2024	2	2.77	108	0.264	<0.30*	5.40	9.32	5.06	<0.260	0.0376	19.0
SS02@2'	1/24/2024	2	2.05	88.0	0.202	<0.30*	5.28	7.18	4.96	<0.260	0.0418	21.0
SS03@2'	1/24/2024	2	2.12	83.0	0.202	<0.30*	5.37	7.27	5.01	<0.260	0.0285	18.3
SS04@2'	1/24/2024	2	2.27	106	0.227	<0.30*	5.57	8.49	4.79	<0.260	0.0333	20.5
SS05@2'	1/24/2024	2	2.45	105	0.276	<0.30*	6.35	9.59	5.23	<0.260	0.0364	21.7
SS06@2'	1/24/2024	2	2.54	103	0.279	<0.30*	5.67	8.90	5.25	<0.260	0.0364	20.2
<i>October - November 2024 Supplemental Site Investigation</i>												
BH01@2-3'	10/29/2024	2-3	2.78	72.9	<0.200	<0.30*	4.71	6.11	4.71	<0.260	0.0233	17.4
BH01@3-4'	10/29/2024	3-4	3.44	102	<0.200	<0.30*	5.47	6.64	6.02	<0.260	0.0337	19.5
BH02@2-3'	10/29/2024	2-3	3.95	148	0.211	<0.30*	5.19	7.30	6.31	<0.260	0.0275	19.0
BH03@2-3'	10/29/2024	2-3	3.59	122	0.212	<0.30*	4.72	6.70	5.81	<0.260	0.0243	17.6
BH04@2-3'	10/29/2024	2-3	3.15	120	0.200	<0.30*	4.83	6.44	5.31	<0.260	0.0258	17.9
BH05@2-3'	10/29/2024	2-3	2.88	72.4	0.251	<0.30*	5.13	6.26	5.08	<0.260	0.0266	18.0
BH06@7-8'	10/29/2024	7-8	4.68	227	0.332	<0.30*	5.74	8.21	6.90	<0.260	0.0265	21.3
BH06@9-10'	10/29/2024	9-10	8.34	225	0.491	<0.30*	8.36	12.0	14.1	<0.260	0.0324	49.2
BH07@8-9'	10/29/2024	8-9	4.25	310	0.254	<0.30*	6.38	8.70	7.36	<0.260	0.0242	24.6
BH07@9-10'	10/29/2024	9-10	5.44	189	0.337	<0.30*	5.83	8.24	6.68	<0.260	<0.0200	23.8
BH08@4-5'	10/29/2024	4-5	6.29	60.5	0.363	<0.30*	5.99	8.84	6.01	<0.260	0.0421	22.9
BH08@9-10'	10/29/2024	9-10	5.63	47.4	0.411	<0.30*	7.59	11.4	7.80	<0.260	0.0291	34.6

Sample ID	Sample Date	Depth (ft. bgs)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) <sup>(4)</sup> (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	15,000	71	0.3	3,100	400	1,500	390	390	23,000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
BH09@7-8'	10/29/2024	7-8	3.81	177	0.302	<0.30*	5.32	7.13	5.95	<0.260	0.0300	18.6
BH09@9-10'	10/29/2024	9-10	5.85	74.3	0.301	<0.30*	6.13	8.32	5.66	<0.260	0.0236	20.1
BH10@2-3'	10/29/2024	2-3	2.73	96.4	0.317	<0.30*	6.14	8.59	5.98	<0.260	0.0381	23.7
BH10@9-10'	10/29/2024	9-10	4.39	66.8	0.243	<0.30*	4.41	5.87	4.87	<0.260	<0.0200	15.8
BH11@0-1'	10/29/2024	0-1	1.88	73.2	0.238	<0.30*	5.11	6.56	4.49	<0.260	0.0203	18.3
BH11@1-2'	10/29/2024	1-2	2.13	93.5	0.274	<0.30*	6.20	8.97	5.65	<0.260	0.0471	23.2
BH12@6-7'	11/05/2024	6-7	6.38	82.9	0.220	<0.30*	5.98	8.02	8.00	<0.260	0.0277	19.2
BH12@23-24'	11/05/2024	23-24	2.53	42.1	0.349	<0.30*	4.99	9.83	5.85	<0.260	0.0239	44.9
BH13@21-22'	11/05/2024	21-22	1.39	137	0.494	<0.30*	6.53	24.9	2.82	<0.260	0.0438	21.3
BH13@23-24'	11/05/2024	23-24	1.42	50.9	<0.200	<0.30*	3.06	5.61	3.61	<0.260	<0.0200	29.8
BH14@21-22'	11/05/2024	21-22	0.903	252	0.334	<0.30*	2.96	9.00	2.76	<0.260	0.0322	26.9
BH14@23-24'	11/05/2024	23-24	7.06	74.1	0.279	<0.30*	3.97	9.75	4.73	<0.260	0.0280	29.6
BH15@22-23'	11/05/2024	22-23	0.886	77.4	<0.200	<0.30*	4.47	7.07	2.88	<0.260	<0.0200	18.3
BH15@23-24'	11/05/2024	23-24	0.757	35.5	<0.200	<0.30*	4.08	7.52	4.34	<0.260	0.0206	22.1
BH16@21-22'	11/05/2024	21-22	2.86	194	1.12	<0.30*	9.85	13.6	13.0	<0.260	0.182	33.1
BH16@23-24'	11/05/2024	23-24	1.18	31.2	<0.200	<0.30*	4.32	7.97	2.97	<0.260	<0.0200	25.9
BH17@28.5'	11/14/2024	28.5	2.19	58.8	0.451	<0.30*	6.38	15.2	13.3	0.291	0.0488	41.9
BH18@22'	11/14/2024	22	7.77	54.7	0.507	<0.30*	5.74	12.5	8.36	<0.260	0.0719	33.1
BH18@27.5'	11/14/2024	27.5	1.21	23.2	0.352	<0.30*	4.36	10.4	8.95	<0.260	0.0299	25.9
BH19@9'	11/14/2024	9	5.18	138	0.436	<0.30*	5.85	9.49	8.08	<0.260	0.0377	19.1
BH19@28'	11/14/2024	28	2.92	42.3	0.590	<0.30*	6.05	13.5	16.1	0.323	0.0457	43.2
BH20@22.5'	11/14/2024	22.5	6.11	218	2.63	<0.30*	10.8	27.6	78.9	0.592	0.172	24.1
BH20@28'	11/14/2024	28	1.52	28.3	0.395	<0.30*	6.50	11.2	9.65	<0.260	0.0351	30.8
BH21@14'	11/14/2024	14	5.44	55.7	0.294	<0.30*	6.14	8.83	11.5	<0.260	0.0217	22.7
BH21@20'	11/14/2024	20	3.18	82.7	0.485	<0.30*	5.60	10.3	11.4	<0.260	0.0359	54.7
<i>Background Samples</i>												
BKG01@9-10'	10/29/2024	9-10	6.47	56.0	0.447	<0.30*	7.31	15.2	4.88	0.283	0.0482	22.0
BKG02@9-10'	10/29/2024	9-10	4.67	195	0.461	<0.30*	9.74	17.4	3.41	<0.260	0.122	15.1
BKG03@9-10'	10/29/2024	9-10	2.58	49.2	0.521	<0.30*	4.40	7.47	11.4	<0.260	0.0293	42.9

Sample ID	Sample Date	Depth (ft. bgs)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) <sup>(4)</sup> (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	15,000	71	0.3	3,100	400	1,500	390	390	23,000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
BKG04@9-10'	10/29/2024	9-10	3.31	169	0.330	<0.30*	4.13	6.37	4.76	<0.260	0.0308	16.6
BKG05@9-10'	10/29/2024	9-10	4.22	231	0.538	<0.30*	5.18	10.6	5.15	<0.260	0.0395	19.4
Maximum Background Concentration X 1.25			8.09	289	0.673	-	-	21.8	14.3	0.354	-	-

**Notes:**

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. Compound falls within ECMC Table 915-1 Footnote 9.

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

\* Indicates laboratory minimum detection limit in excess of SSL





<b>SITE NAME:</b> Houndskeeper H01-17 Facility							<b>DATE:</b> 11/1/2024	<b>REM. PROJECT #:</b> 31352	<b>WEATHER:</b> Clear and 60s	
<b>SITE DIRECTIONS:</b> to access road on S side of CR38, enter and park, arrived at site							<b>CLIENT:</b> Noble			
<b>LEGALS AND LAT/LONG:</b> 40.261273, -104.611062							<b>TASMAN PERSONNEL:</b> Wyatt Wadleigh			
<b>SOIL TYPES:</b>							<b>SURFACE GRADIENT:</b> South			
<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)			
							Buried or Partially Buried Vessel			
							Separator			
							Emission Control Device (ECD)			
							Dump Line			
							Wellhead			
							Flowline			
							Other:			
							<b>Soil Loads Removed</b>			
							<b>IMPACTED SOIL IDENTIFIED?</b>			
							<b>ESTIMATED VOLUME OF IMPACTS:</b>			
							Date	Number	CY	
							<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>			





<b>Equipment ID:</b>	<b>Equipment Type:</b>
<b>Material:</b>	<b>Volume:</b>
<b>Contents:</b>	

**Notes/Conditions:** Located north side of pad facing north BH12-BH15

<b>Equipment ID:</b>	<b>Equipment Type:</b>
<b>Material:</b>	<b>Volume:</b>
<b>Contents:</b>	

**Notes/Conditions:** BH13 is located other side of fence facing west still accesible



<b>Equipment ID:</b>	<b>Equipment Type:</b>
----------------------	------------------------

<b>Material:</b>	<b>Volume:</b>	<b>Contents:</b>
------------------	----------------	------------------

**Notes/Conditions:** BG01 located SE edge of site facing NW

<b>Equipment ID:</b>	<b>Equipment Type:</b>
----------------------	------------------------

<b>Material:</b>	<b>Volume:</b>	<b>Contents:</b>
------------------	----------------	------------------

**Notes/Conditions:** BG02 located NE edge of site facing north



<b>Equipment ID:</b>		<b>Equipment Type:</b>	
<b>Material:</b>	<b>Volume:</b>	<b>Contents:</b>	
<b>Notes/Conditions:</b> BG03 located north edge of site approximately 10' west of DCP midstream underground line facing north			

<b>Equipment ID:</b>		<b>Equipment Type:</b>	
<b>Material:</b>	<b>Volume:</b>	<b>Contents:</b>	
<b>Notes/Conditions:</b> BG04 located west side of site perimeter west of cattle guard facing west			



<b>Equipment ID:</b>		<b>Equipment Type:</b>	
<b>Material:</b>	<b>Volume:</b>	<b>Contents:</b>	
<b>Notes/Conditions:</b> BG05 located NW of site perimeter facing west			

<b>Equipment ID:</b>		<b>Equipment Type:</b>	
<b>Material:</b>	<b>Volume:</b>	<b>Contents:</b>	
<b>Notes/Conditions:</b> DCP midstream line locate flags facing north			



<b>Equipment ID:</b>	<b>Equipment Type:</b>
<b>Material:</b>	<b>Volume:</b>
<b>Contents:</b>	

**Notes/Conditions:** West facing DCP line

<b>Equipment ID:</b>	<b>Equipment Type:</b>
<b>Material:</b>	<b>Volume:</b>
<b>Contents:</b>	

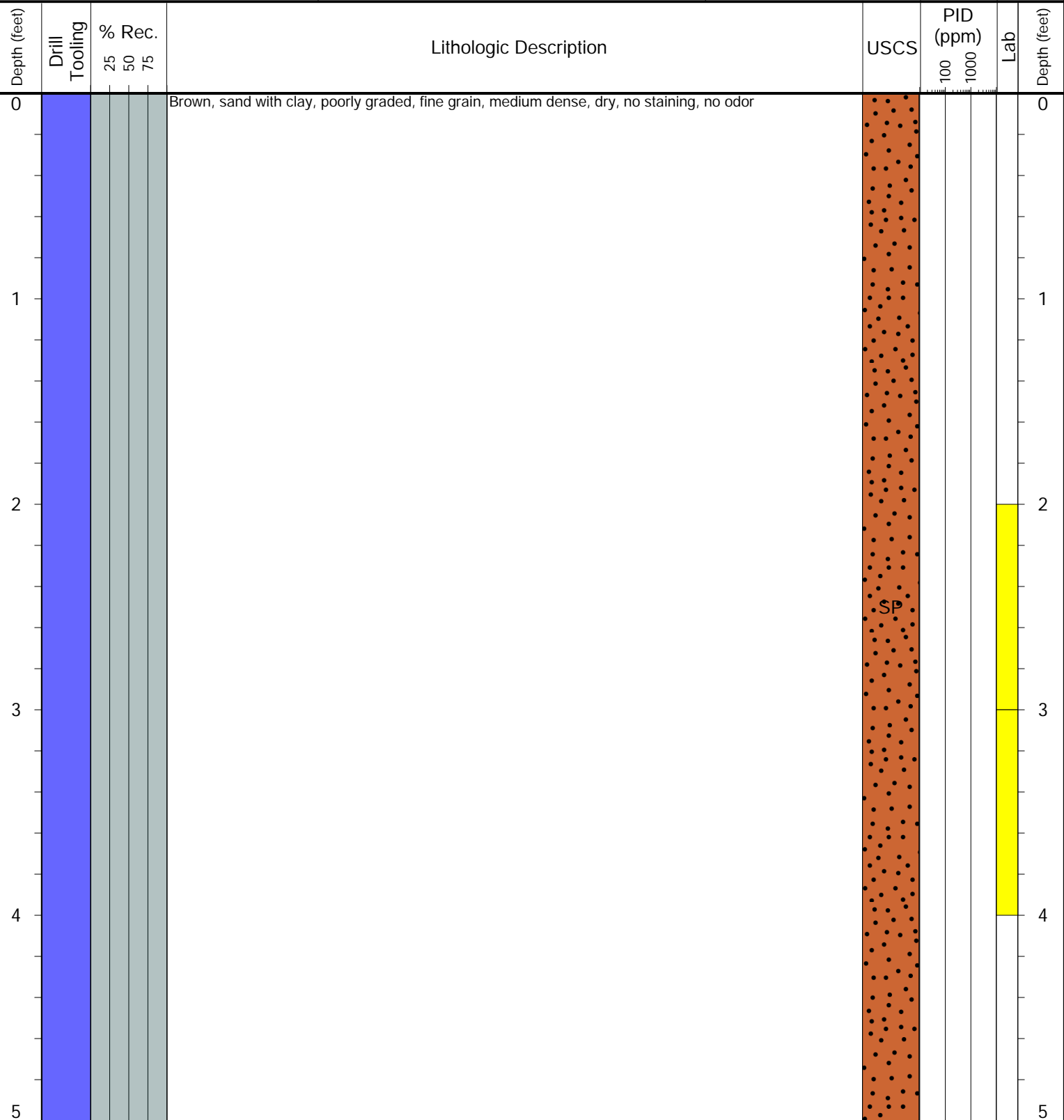
**Notes/Conditions:** East facing DCP line



**CLIENT:** Noble Energy, Inc.  
**LOGGED BY:** M. Reynolds  
**PROJECT MANAGER:** E. Vonde  
**DRILLING CONTRACTOR:** Tasman  
**DRILLING EQUIPMENT:** Hand Auger  
**DRILL BIT SIZE (INCHES):** 3.25  
**DATE STARTED - COMPLETED:** 10/29/24 - 10/29/24  
**TOTAL WELL DEPTH (FT. BGS):** 5  
**DEPTH TO WATER (FT. BGS):** Not Encountered

**Houndskeeper H01-17 Tank Battery**  
**BORING ID:** BH01  
**LOCATION:** SW of SEP01-FL  
**LATITUDE (NAD 83):** 40.261273  
**LONGITUDE (NAD 83):** -104.611034  
**GROUND ELEVATION (FT. AMSL):** Not Measured  
**ABANDONMENT METHOD:** Native Soil

**4725 Independence St.**  
**Wheat Ridge, CO 80033**



**Drilling / Sample Method:**

- Macro-Core
- Hand Auger
- Expendable Well Tip
- HydroPunch Groundwater Sampler

**Laboratory Sample Types:**

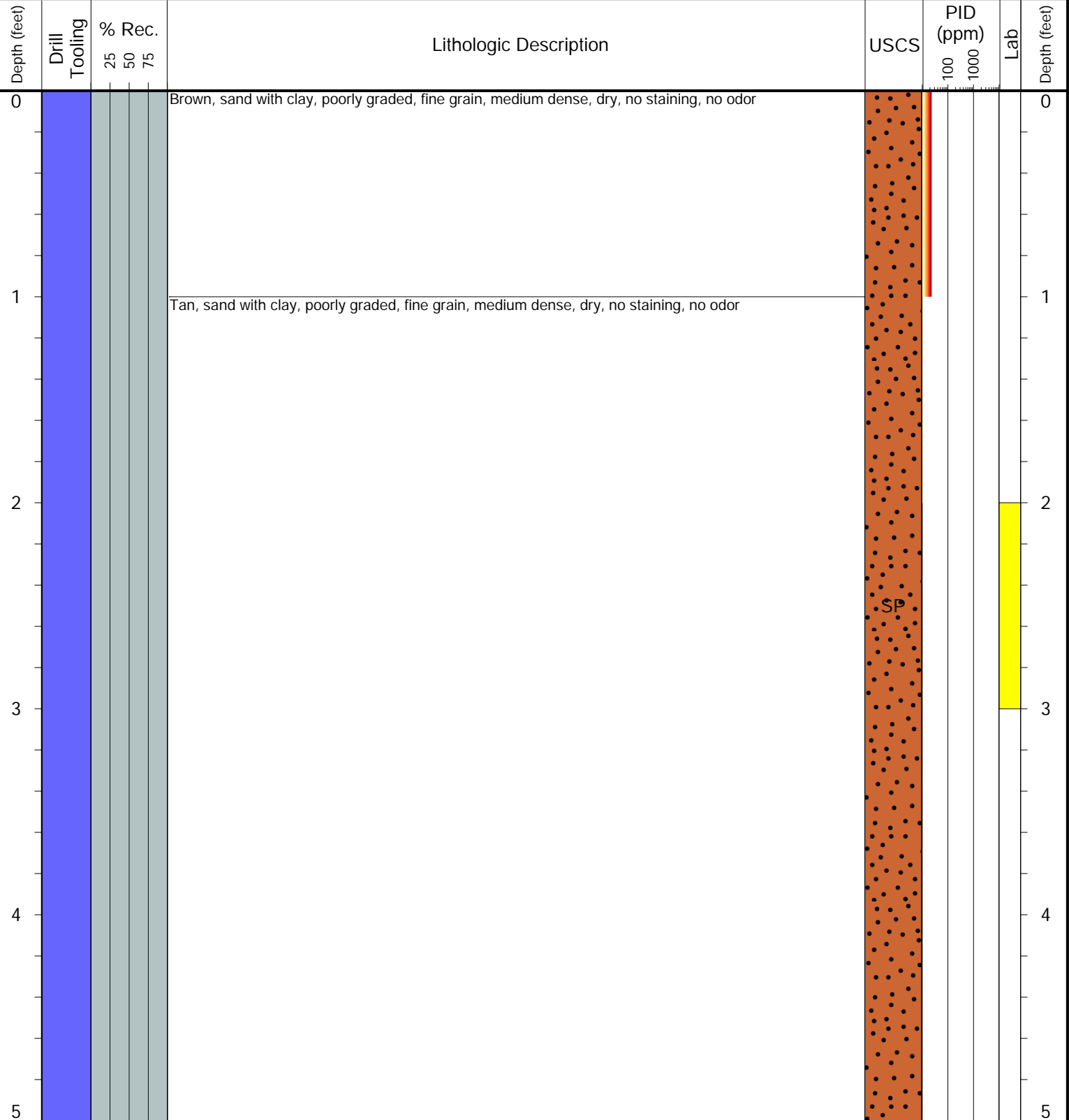
- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



**CLIENT:** Noble Energy, Inc.  
**LOGGED BY:** M. Reynolds  
**PROJECT MANAGER:** E. Vonde  
**DRILLING CONTRACTOR:** Tasman  
**DRILLING EQUIPMENT:** Hand Auger  
**DRILL BIT SIZE (INCHES):** 3.25  
**DATE STARTED - COMPLETED:** 10/29/24 - 10/29/24  
**TOTAL WELL DEPTH (FT. BGS):** 5  
**DEPTH TO WATER (FT. BGS):** Not Encountered

**Houndskeeper H01-17 Tank Battery**  
**BORING ID:** BH02  
**LOCATION:** N of BH01  
**LATITUDE (NAD 83):** 40.261310  
**LONGITUDE (NAD 83):** -104.611034  
**GROUND ELEVATION (FT. AMSL):** Not Measured  
**ABANDONMENT METHOD:** Native Soil

**4725 Independence St.**  
**Wheat Ridge, CO 80033**



**Drilling / Sample Method:**

- Macro-Core
- Hand Auger
- Expendable Well Tip
- HydroPunch Groundwater Sampler

**Laboratory Sample Types:**

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



**CLIENT:** Noble Energy, Inc.  
**LOGGED BY:** M. Reynolds  
**PROJECT MANAGER:** E. Vonde  
**DRILLING CONTRACTOR:** Tasman  
**DRILLING EQUIPMENT:** Hand Auger  
**DRILL BIT SIZE (INCHES):** 3.25  
**DATE STARTED - COMPLETED:** 10/29/24 - 10/29/24  
**TOTAL WELL DEPTH (FT. BGS):** 5  
**DEPTH TO WATER (FT. BGS):** Not Encountered

**Houndskeeper H01-17 Tank Battery**  
**BORING ID:** BH03  
**LOCATION:** E of BH01  
**LATITUDE (NAD 83):** 40.261278  
**LONGITUDE (NAD 83):** -104.610990  
**GROUND ELEVATION (FT. AMSL):** Not Measured  
**ABANDONMENT METHOD:** Native Soil

**4725 Independence St.**  
**Wheat Ridge, CO 80033**

Depth (feet)	Drill Tooling	% Rec. 25 50 75	Lithologic Description	USCS	PID (ppm)		Lab	Depth (feet)
					100	1000		
0	Hand Auger		Brown, sand, poorly graded, fine grain, dense, dry, no staining, no odor	SP				0
1			Tan, sand, poorly graded, fine grain, dense, dry, no staining, no odor					1
2								2
3								3
4								4
5								5

**Drilling / Sample Method:**

- Macro-Core
- Hand Auger
- Expendable Well Tip
- HydroPunch Groundwater Sampler

**Laboratory Sample Types:**

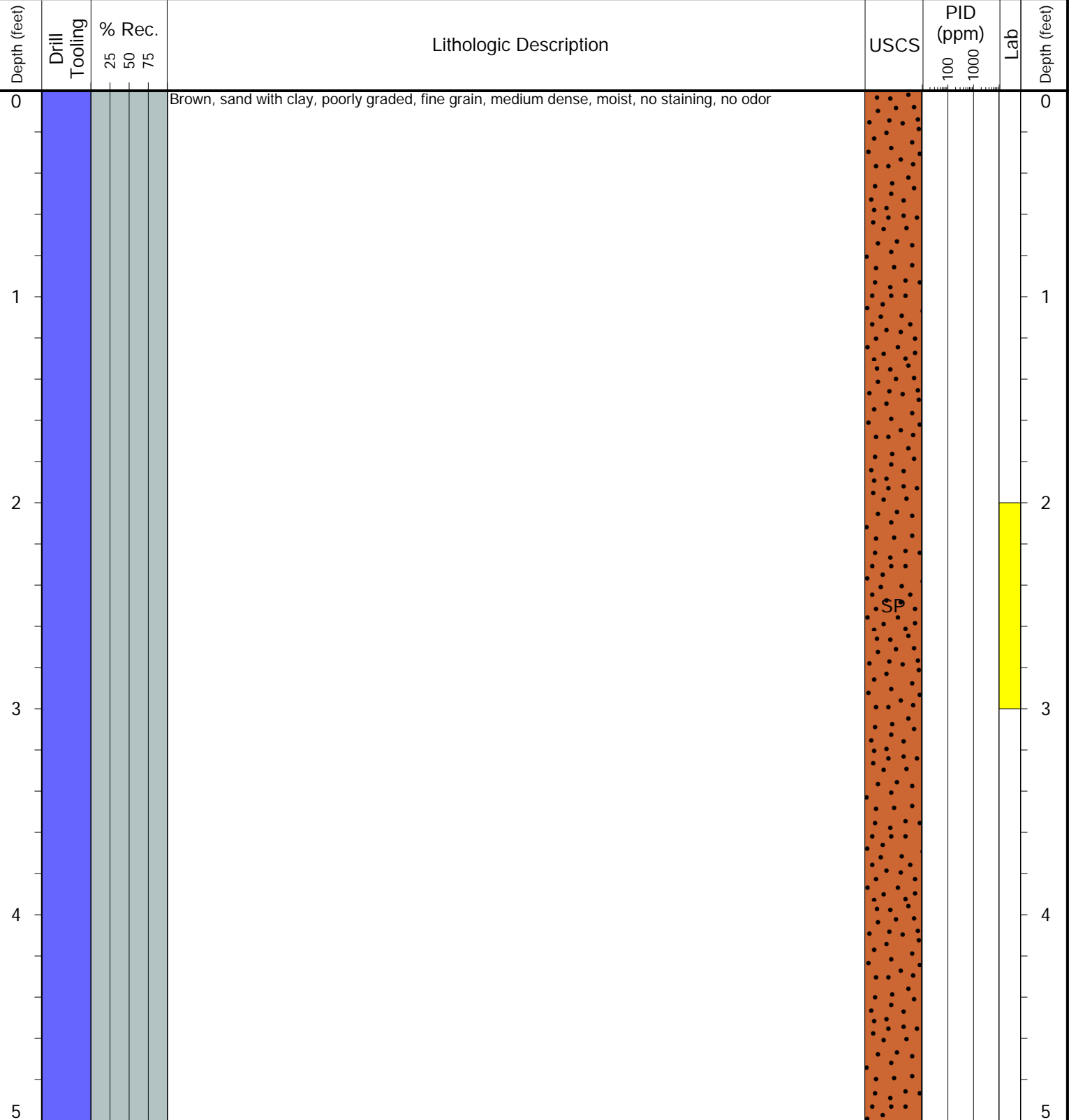
- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



**CLIENT:** Noble Energy, Inc.  
**LOGGED BY:** M. Reynolds  
**PROJECT MANAGER:** E. Vonde  
**DRILLING CONTRACTOR:** Tasman  
**DRILLING EQUIPMENT:** Hand Auger  
**DRILL BIT SIZE (INCHES):** 3.25  
**DATE STARTED - COMPLETED:** 10/29/24 - 10/29/24  
**TOTAL WELL DEPTH (FT. BGS):** 5  
**DEPTH TO WATER (FT. BGS):** Not Encountered

**Houndskeeper H01-17 Tank Battery**  
**BORING ID:** BH05  
**LOCATION:** W of BH01  
**LATITUDE (NAD 83):** 40.261276  
**LONGITUDE (NAD 83):** -104.611074  
**GROUND ELEVATION (FT. AMSL):** Not Measured  
**ABANDONMENT METHOD:** Native Soil

**4725 Independence St.**  
**Wheat Ridge, CO 80033**



**Drilling / Sample Method:**

- Macro-Core
- Hand Auger
- Expendable Well Tip
- HydroPunch Groundwater Sampler

**Laboratory Sample Types:**

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



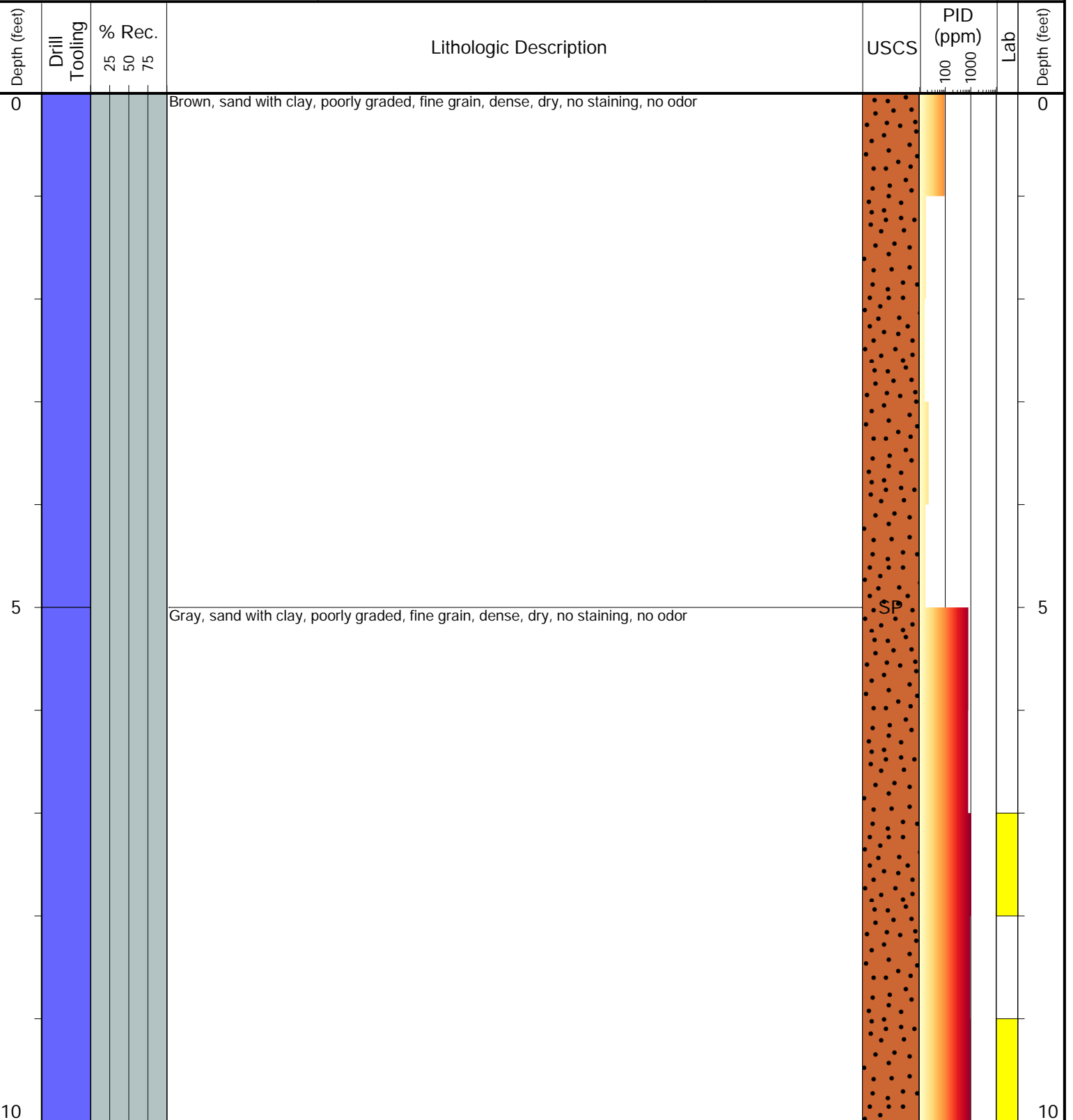
**CLIENT:** Noble Energy, Inc.  
**LOGGED BY:** M. Reynolds  
**PROJECT MANAGER:** E. Vonde  
**DRILLING CONTRACTOR:** Tasman  
**DRILLING EQUIPMENT:** Hand Auger  
**DRILL BIT SIZE (INCHES):** 3.25  
**DATE STARTED - COMPLETED:** 10/29/24 - 10/29/24  
**TOTAL WELL DEPTH (FT. BGS):** 10  
**DEPTH TO WATER (FT. BGS):** Not Encountered

**Houndskeeper H01-17 Tank Battery**

**BORING ID:** BH06

**LOCATION:** E of FS01  
**LATITUDE (NAD 83):** 40.261238  
**LONGITUDE (NAD 83):** -104.611351  
**GROUND ELEVATION (FT. AMSL):** Not Measured  
**ABANDONMENT METHOD:** Native Soil

**4725 Independence St.**  
**Wheat Ridge, CO 80033**



**Drilling / Sample Method:**

- Macro-Core
- Hand Auger
- Expendable Well Tip
- HydroPunch Groundwater Sampler

**Laboratory Sample Types:**

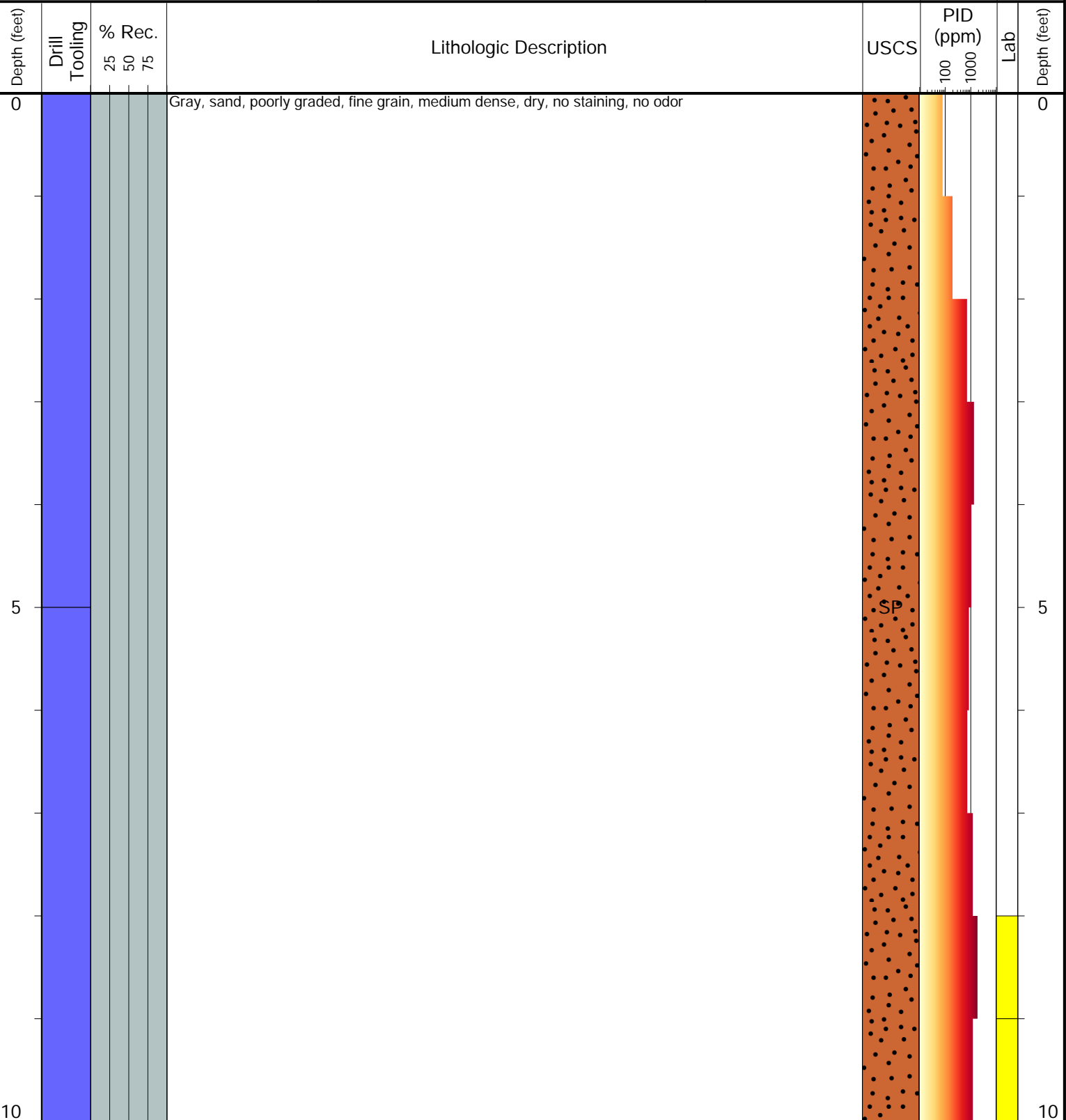
- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



**CLIENT:** Noble Energy, Inc.  
**LOGGED BY:** M. Reynolds  
**PROJECT MANAGER:** E. Vonde  
**DRILLING CONTRACTOR:** Tasman  
**DRILLING EQUIPMENT:** Hand Auger  
**DRILL BIT SIZE (INCHES):** 3.25  
**DATE STARTED - COMPLETED:** 10/29/24 - 10/29/24  
**TOTAL WELL DEPTH (FT. BGS):** 10  
**DEPTH TO WATER (FT. BGS):** Not Encountered

**Houndskeeper H01-17 Tank Battery**  
**BORING ID:** BH07  
**LOCATION:** N of BH06  
**LATITUDE (NAD 83):** 40.261289  
**LONGITUDE (NAD 83):** -104.611346  
**GROUND ELEVATION (FT. AMSL):** Not Measured  
**ABANDONMENT METHOD:** Native Soil

**4725 Independence St.**  
**Wheat Ridge, CO 80033**



**Drilling / Sample Method:**

- Macro-Core
- Hand Auger
- Expendable Well Tip
- HydroPunch Groundwater Sampler

**Laboratory Sample Types:**

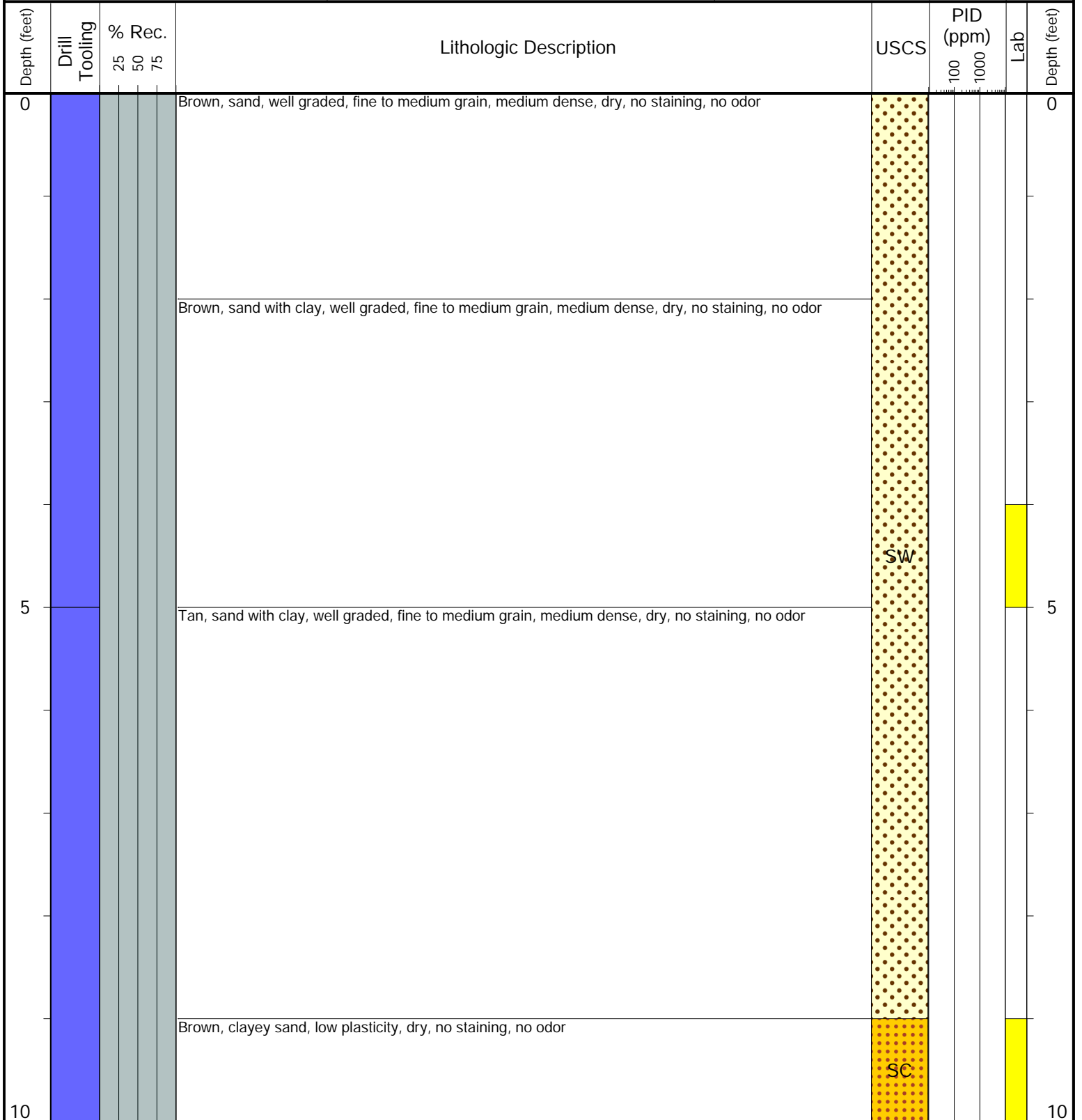
- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



**CLIENT:** Noble Energy, Inc.  
**LOGGED BY:** M. Reynolds  
**PROJECT MANAGER:** E. Vonde  
**DRILLING CONTRACTOR:** Tasman  
**DRILLING EQUIPMENT:** Hand Auger  
**DRILL BIT SIZE (INCHES):** 3.25  
**DATE STARTED - COMPLETED:** 10/29/24 - 10/29/24  
**TOTAL WELL DEPTH (FT. BGS):** 10  
**DEPTH TO WATER (FT. BGS):** Not Encountered

**Houndskeeper H01-17 Tank Battery**  
**BORING ID:** BH08  
**LOCATION:** E of BH06  
**LATITUDE (NAD 83):** 40.261237  
**LONGITUDE (NAD 83):** -104.611276  
**GROUND ELEVATION (FT. AMSL):** Not Measured  
**ABANDONMENT METHOD:** Native Soil

**4725 Independence St.**  
**Wheat Ridge, CO 80033**



**Drilling / Sample Method:**

- Macro-Core
- Hand Auger
- Expendable Well Tip
- HydroPunch Groundwater Sampler

**Laboratory Sample Types:**

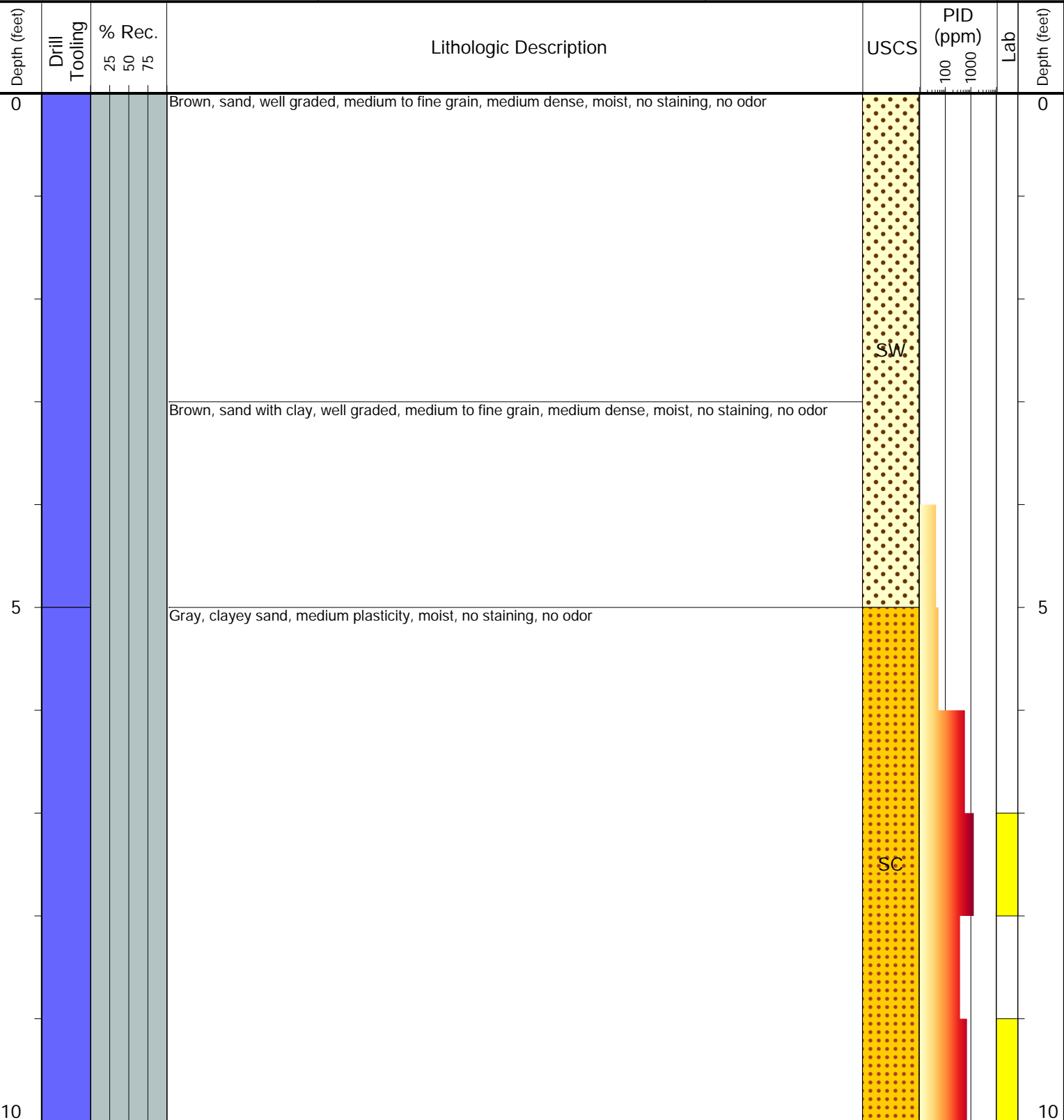
- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



**CLIENT:** Noble Energy, Inc.  
**LOGGED BY:** M. Reynolds  
**PROJECT MANAGER:** E. Vonde  
**DRILLING CONTRACTOR:** Tasman  
**DRILLING EQUIPMENT:** Hand Auger  
**DRILL BIT SIZE (INCHES):** 3.25  
**DATE STARTED - COMPLETED:** 10/29/24 - 10/29/24  
**TOTAL WELL DEPTH (FT. BGS):** 10  
**DEPTH TO WATER (FT. BGS):** Not Encountered

**Houndskeeper H01-17 Tank Battery**  
**BORING ID:** BH09  
**LOCATION:** S of BH06  
**LATITUDE (NAD 83):** 40.261166  
**LONGITUDE (NAD 83):** -104.611346  
**GROUND ELEVATION (FT. AMSL):** Not Measured  
**ABANDONMENT METHOD:** Native Soil

**4725 Independence St.**  
**Wheat Ridge, CO 80033**



**Drilling / Sample Method:**

- Macro-Core
- Hand Auger
- Expendable Well Tip
- HydroPunch Groundwater Sampler

**Laboratory Sample Types:**

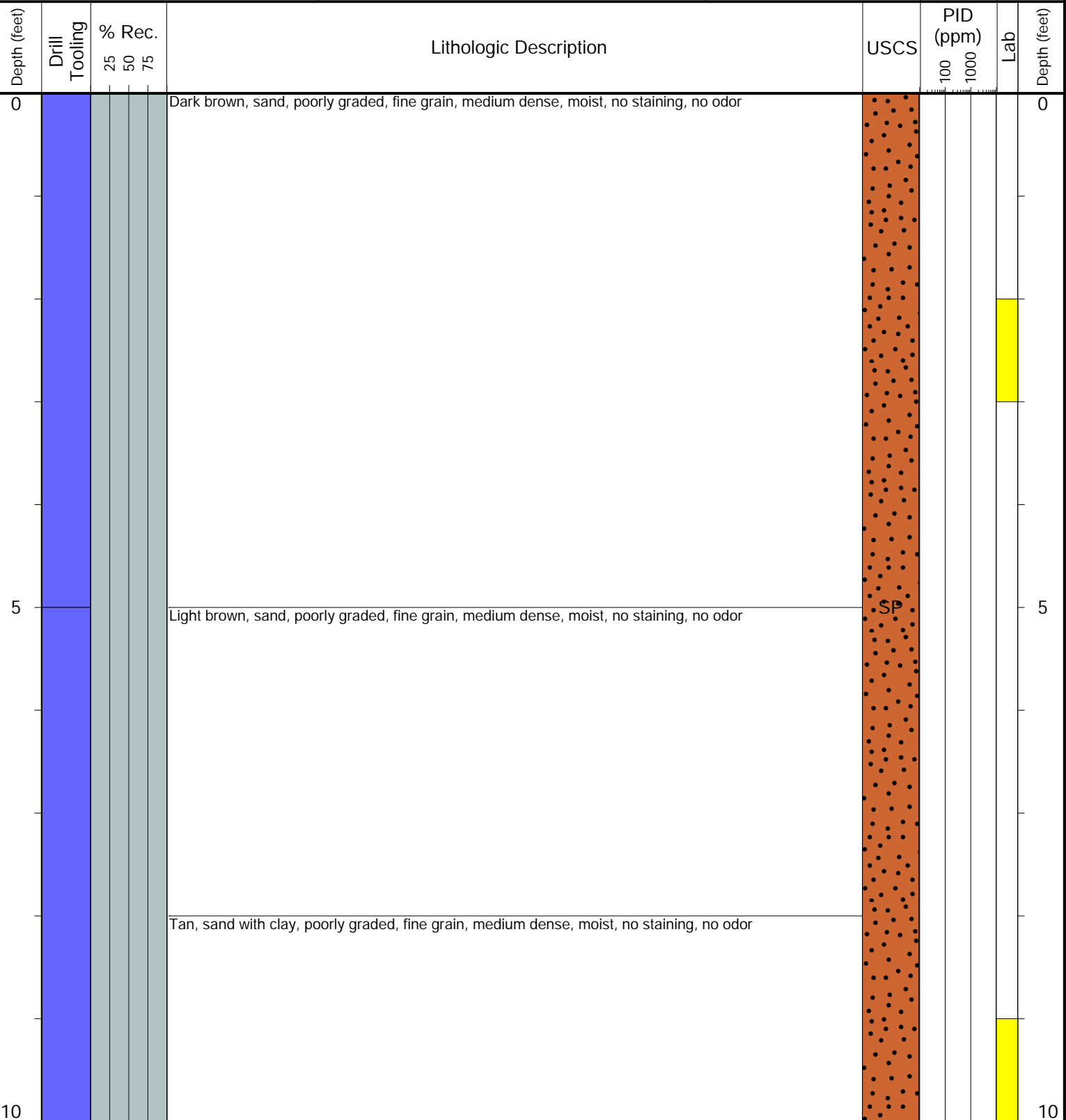
- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



**CLIENT:** Noble Energy, Inc.  
**LOGGED BY:** M. Reynolds  
**PROJECT MANAGER:** E. Vonde  
**DRILLING CONTRACTOR:** Tasman  
**DRILLING EQUIPMENT:** Hand Auger  
**DRILL BIT SIZE (INCHES):** 3.25  
**DATE STARTED - COMPLETED:** 10/29/24 - 10/29/24  
**TOTAL WELL DEPTH (FT. BGS):** 10  
**DEPTH TO WATER (FT. BGS):** Not Encountered

**Houndskeeper H01-17 Tank Battery**  
**BORING ID:** BH10  
**LOCATION:** W of BH06  
**LATITUDE (NAD 83):** 40.261234  
**LONGITUDE (NAD 83):** -104.611434  
**GROUND ELEVATION (FT. AMSL):** Not Measured  
**ABANDONMENT METHOD:** Native Soil

**4725 Independence St.**  
**Wheat Ridge, CO 80033**



**Drilling / Sample Method:**

- Macro-Core
- Hand Auger
- HydroPunch Groundwater Sampler
- Expendable Well Tip

**Laboratory Sample Types:**

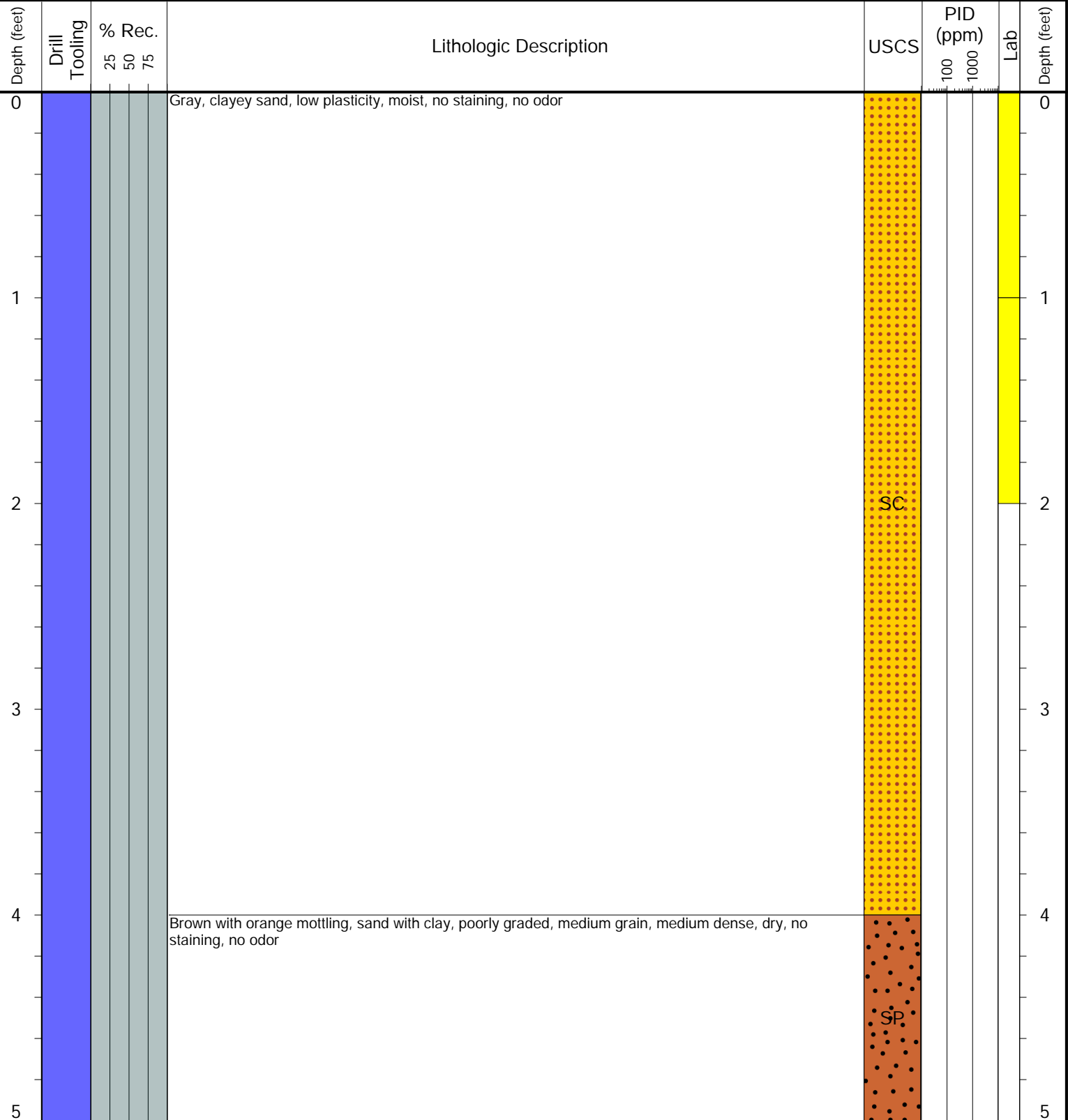
- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



**CLIENT:** Noble Energy, Inc.  
**LOGGED BY:** M. Reynolds  
**PROJECT MANAGER:** E. Vonde  
**DRILLING CONTRACTOR:** Tasman  
**DRILLING EQUIPMENT:** Hand Auger  
**DRILL BIT SIZE (INCHES):** 3.25  
**DATE STARTED - COMPLETED:** 10/29/24 - 10/29/24  
**TOTAL WELL DEPTH (FT. BGS):** 5  
**DEPTH TO WATER (FT. BGS):** Not Encountered

**Houndskeeper H01-17 Tank Battery**  
**BORING ID:** BH11  
**LOCATION:** SW of BH06  
**LATITUDE (NAD 83):** 40.261214  
**LONGITUDE (NAD 83):** -104.611396  
**GROUND ELEVATION (FT. AMSL):** Not Measured  
**ABANDONMENT METHOD:** Native Soil

**4725 Independence St.**  
**Wheat Ridge, CO 80033**



**Drilling / Sample Method:**

- Macro-Core
- Hand Auger
- Expendable Well Tip
- HydroPunch Groundwater Sampler

**Laboratory Sample Types:**

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



CLIENT: Noble Energy, Inc.

LOGGED BY: K. Hoag / P. Downs

PROJECT MANAGER: E. Vonde

DRILLING CONTRACTOR: Tasman

DRILLING EQUIPMENT: PowerProbe

DRILL BIT SIZE (INCHES): 2.375

DATE STARTED - COMPLETED: 11/5/24 - 11/5/24

TOTAL WELL DEPTH (FT. BGS): 24

DEPTH TO WATER (FT. BGS): Not Encountered

Houndskeeper H01-17 Tank Battery

BORING ID: BH12

LOCATION: N of BH07

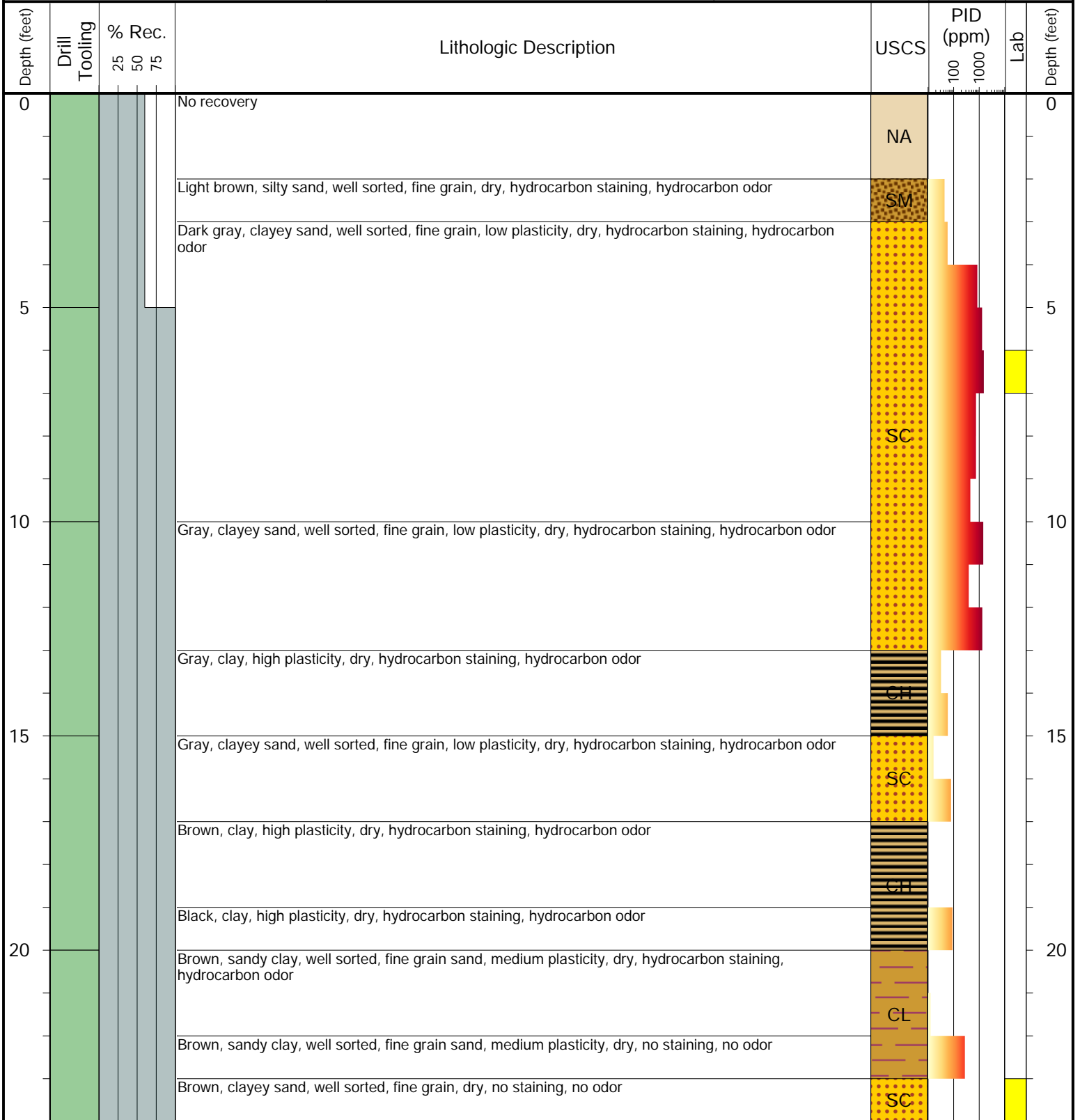
LATITUDE (NAD 83): 40.261296

LONGITUDE (NAD 83): -104.611346

GROUND ELEVATION (FT. AMSL): Not Measured

ABANDONMENT METHOD: Native Soil

4725 Independence St.  
Wheat Ridge, CO 80033



**Drilling / Sample Method:**

- Macro-Core
- Hand Auger
- Expendable Well Tip
- HydroPunch Groundwater Sampler

**Laboratory Sample Types:**

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



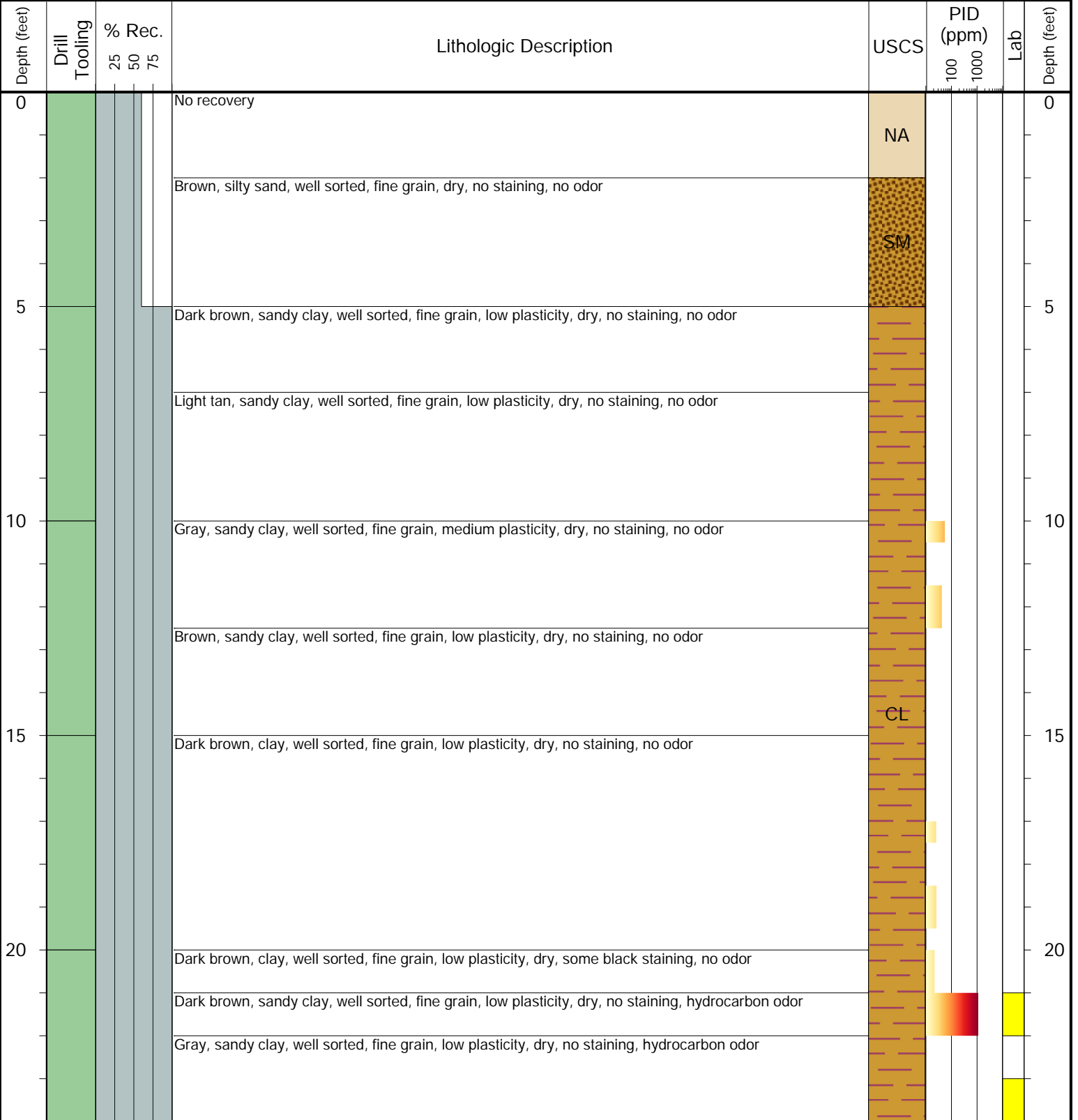
**CLIENT:** Noble Energy, Inc.  
**LOGGED BY:** K. Hoag / P. Downs  
**PROJECT MANAGER:** E. Vonde  
**DRILLING CONTRACTOR:** Tasman  
**DRILLING EQUIPMENT:** PowerProbe  
**DRILL BIT SIZE (INCHES):** 2.375  
**DATE STARTED - COMPLETED:** 11/5/24 - 11/5/24  
**TOTAL WELL DEPTH (FT. BGS):** 24  
**DEPTH TO WATER (FT. BGS):** Not Encountered

**Houndskeeper H01-17 Tank Battery**

**BORING ID:** BH13

**LOCATION:** N of BH13  
**LATITUDE (NAD 83):** 40.261337  
**LONGITUDE (NAD 83):** -104.611353  
**GROUND ELEVATION (FT. AMSL):** Not Measured  
**ABANDONMENT METHOD:** Native Soil

**4725 Independence St.**  
**Wheat Ridge, CO 80033**



**Drilling / Sample Method:**

- Macro-Core
- Hand Auger
- Expendable Well Tip
- HydroPunch Groundwater Sampler

**Laboratory Sample Types:**

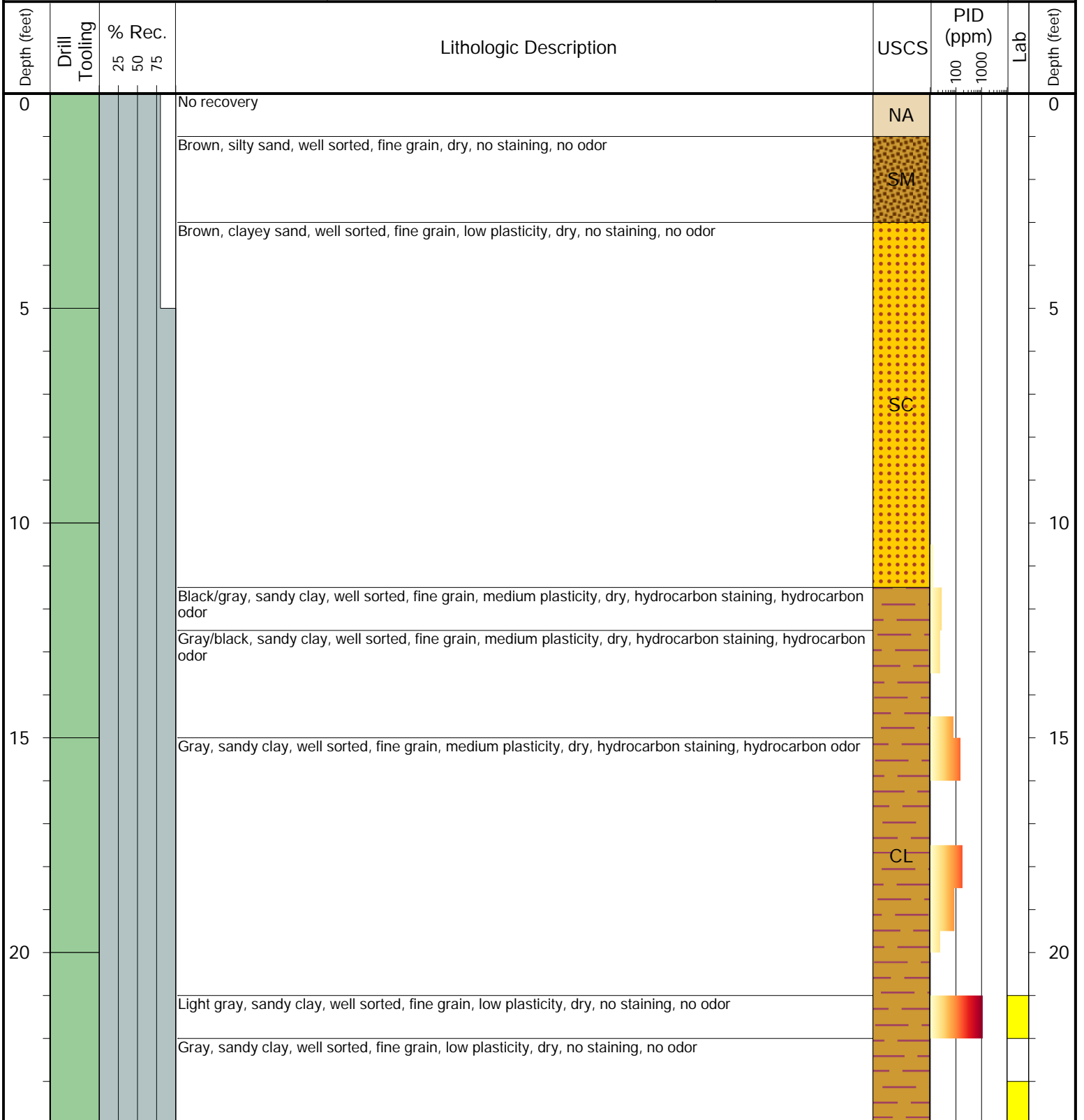
- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



**CLIENT:** Noble Energy, Inc.  
**LOGGED BY:** K. Hoag / P. Downs  
**PROJECT MANAGER:** E. Vonde  
**DRILLING CONTRACTOR:** Tasman  
**DRILLING EQUIPMENT:** PowerProbe  
**DRILL BIT SIZE (INCHES):** 2.375  
**DATE STARTED - COMPLETED:** 11/5/24 - 11/5/24  
**TOTAL WELL DEPTH (FT. BGS):** 24  
**DEPTH TO WATER (FT. BGS):** Not Encountered

**Houndskeeper H01-17 Tank Battery**  
**BORING ID:** BH14  
**LOCATION:** E of BH07  
**LATITUDE (NAD 83):** 40.261291  
**LONGITUDE (NAD 83):** -104.611286  
**GROUND ELEVATION (FT. AMSL):** Not Measured  
**ABANDONMENT METHOD:** Native Soil

**4725 Independence St.**  
**Wheat Ridge, CO 80033**



**Drilling / Sample Method:**

- Macro-Core
- Hand Auger
- Expendable Well Tip
- HydroPunch Groundwater Sampler

**Laboratory Sample Types:**

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



CLIENT: Noble Energy, Inc.

LOGGED BY: K. Hoag / P. Downs

PROJECT MANAGER: E. Vonde

DRILLING CONTRACTOR: Tasman

DRILLING EQUIPMENT: PowerProbe

DRILL BIT SIZE (INCHES): 2.375

DATE STARTED - COMPLETED: 11/5/24 - 11/5/24

TOTAL WELL DEPTH (FT. BGS): 24

DEPTH TO WATER (FT. BGS): Not Encountered

Houndskeeper H01-17 Tank Battery

BORING ID: BH15

LOCATION: W of BH07

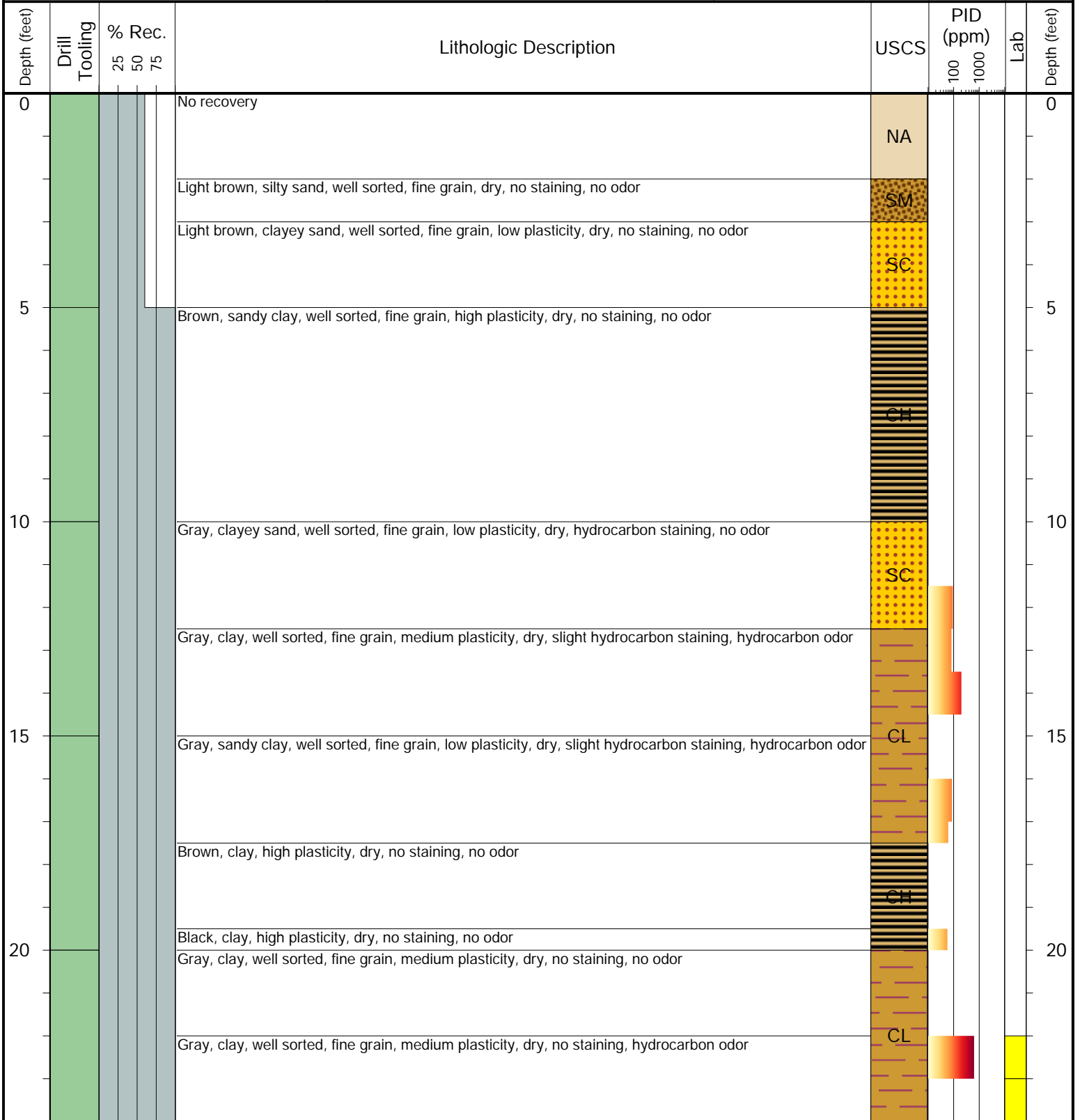
LATITUDE (NAD 83): 40.261287

LONGITUDE (NAD 83): -104.611408

GROUND ELEVATION (FT. AMSL): Not Measured

ABANDONMENT METHOD: Native Soil

4725 Independence St.  
Wheat Ridge, CO 80033



Drilling / Sample Method:

- Macro-Core
- Hand Auger
- Expendable Well Tip
- HydroPunch Groundwater Sampler

Laboratory Sample Types:

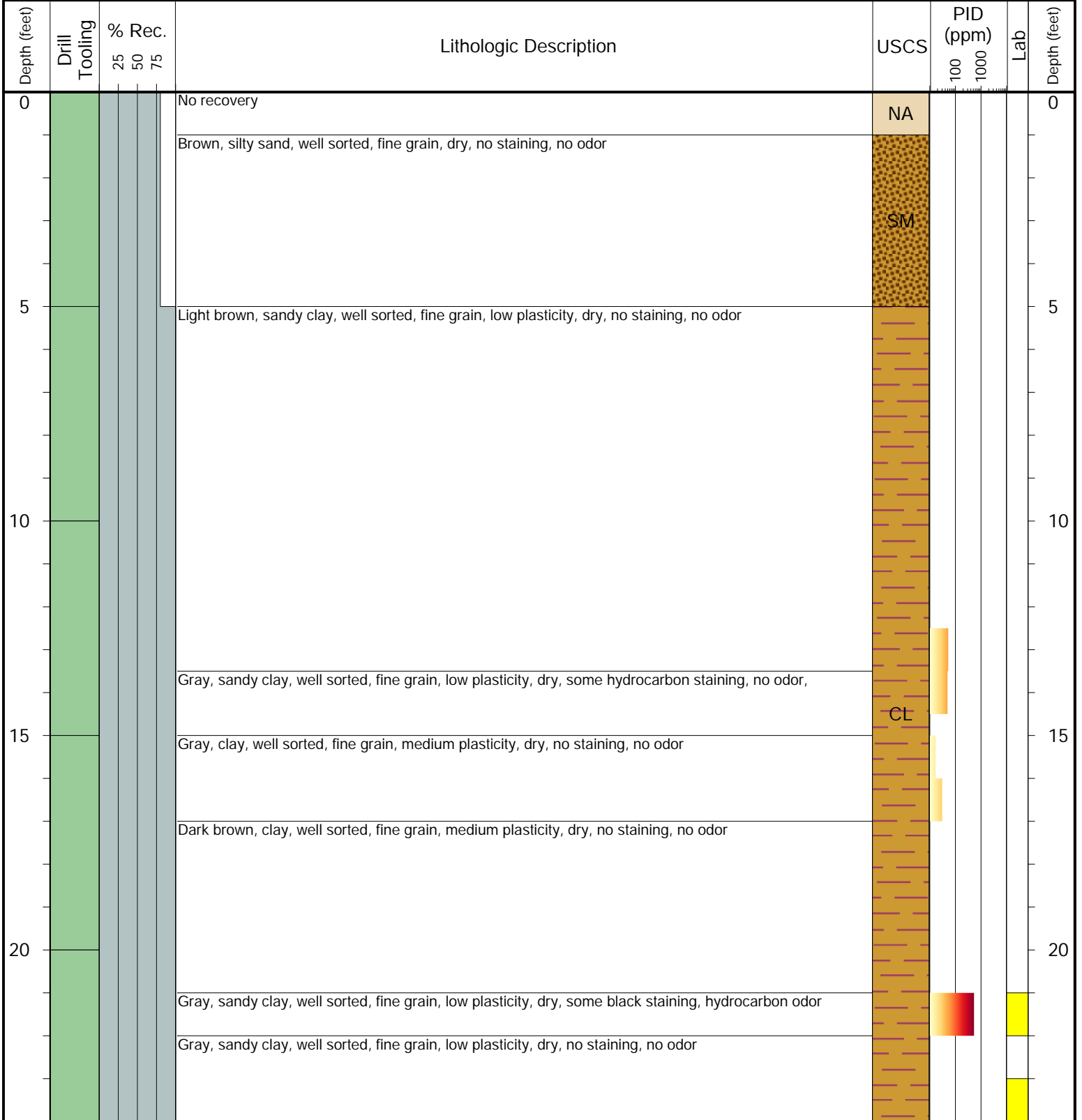
- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



**CLIENT:** Noble Energy, Inc.  
**LOGGED BY:** K. Hoag / P. Downs  
**PROJECT MANAGER:** E. Vonde  
**DRILLING CONTRACTOR:** Tasman  
**DRILLING EQUIPMENT:** PowerProbe  
**DRILL BIT SIZE (INCHES):** 2.375  
**DATE STARTED - COMPLETED:** 11/5/24 - 11/5/24  
**TOTAL WELL DEPTH (FT. BGS):** 24  
**DEPTH TO WATER (FT. BGS):** Not Encountered

**Houndskeeper H01-17 Tank Battery**  
**BORING ID:** BH16  
**LOCATION:** N of BH13  
**LATITUDE (NAD 83):** 40.261376  
**LONGITUDE (NAD 83):** -104.611341  
**GROUND ELEVATION (FT. AMSL):** Not Measured  
**ABANDONMENT METHOD:** Native Soil

**4725 Independence St.**  
**Wheat Ridge, CO 80033**



**Drilling / Sample Method:**

- Macro-Core
- Hand Auger
- Expendable Well Tip
- HydroPunch Groundwater Sampler

**Laboratory Sample Types:**

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



**CLIENT:** Noble Energy, Inc.  
**LOGGED BY:** K. Hoag / P. Downs  
**PROJECT MANAGER:** E. Vonde  
**DRILLING CONTRACTOR:** Tasman  
**DRILLING EQUIPMENT:** Geoprobe  
**DRILL BIT SIZE (INCHES):** 2.375  
**DATE STARTED - COMPLETED:** 11/14/24 - 11/14/24  
**TOTAL WELL DEPTH (FT. BGS):** 28.5  
**DEPTH TO WATER (FT. BGS):** Not Encountered

**Houndskeeper H01-17 Tank Battery**  
**BORING ID:** BH17  
**LOCATION:** E of BH14  
**LATITUDE (NAD 83):** 40.261297  
**LONGITUDE (NAD 83):** -104.611233  
**GROUND ELEVATION (FT. AMSL):** Not Measured  
**ABANDONMENT METHOD:** Native Soil

**4725 Independence St.**  
**Wheat Ridge, CO 80033**

Depth (feet)	Drill Tooling	% Rec.			Lithologic Description	USCS	PID (ppm)		Lab	Depth (feet)
		25	50	75			100	1000		
0					No recovery	NA				0
					Brown, silty sand, well sorted, fine grain, dry, no staining, no odor					
5					Brown, silty sand, well sorted, fine grain, slightly moist, no staining, no odor	SM				5
					Brown/gray, clayey sand, well sorted, fine grain, low plasticity, dry, no staining, no odor					
					Gray/tan, clayey sand, well sorted, fine grain, low plasticity, dry, no staining, no odor					
					Dark brown/gray, clayey sand, fine grain, high plasticity, dry, no staining, no odor					
15					Gray/brown, clayey sand, fine grain, medium plasticity, dry, no staining, no odor					15
					Gray, clayey sand, fine grain, low plasticity, dry, no staining, no odor	SC				
					Gray, clayey sand, fine grain, low plasticity, dry, slight hydrocarbon staining, hydrocarbon odor					
25					Brown/gray, clayey sand, fine grain, low plasticity, dry, no staining, no odor					25
					Gray, clayey sand, fine grain, low plasticity, dry, slight hydrocarbon staining, hydrocarbon odor					
					Brown, silty sand, fine grain, dry, no staining, hydrocarbon odor	SM				
					Drill rig refusal at 28.5 ft bgs					

**Drilling / Sample Method:**

- Macro-Core
- Hand Auger
- Expendable Well Tip
- HydroPunch Groundwater Sampler

**Laboratory Sample Types:**

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



CLIENT: Noble Energy, Inc.

LOGGED BY: K. Hoag / P. Downs

PROJECT MANAGER: E. Vonde

DRILLING CONTRACTOR: Tasman

DRILLING EQUIPMENT: Geoprobe

DRILL BIT SIZE (INCHES): 2.375

DATE STARTED - COMPLETED: 11/14/24 - 11/14/24

TOTAL WELL DEPTH (FT. BGS): 27.5

DEPTH TO WATER (FT. BGS): Not Encountered

Houndskeeper H01-17 Tank Battery

BORING ID: BH18

LOCATION: W of BH15

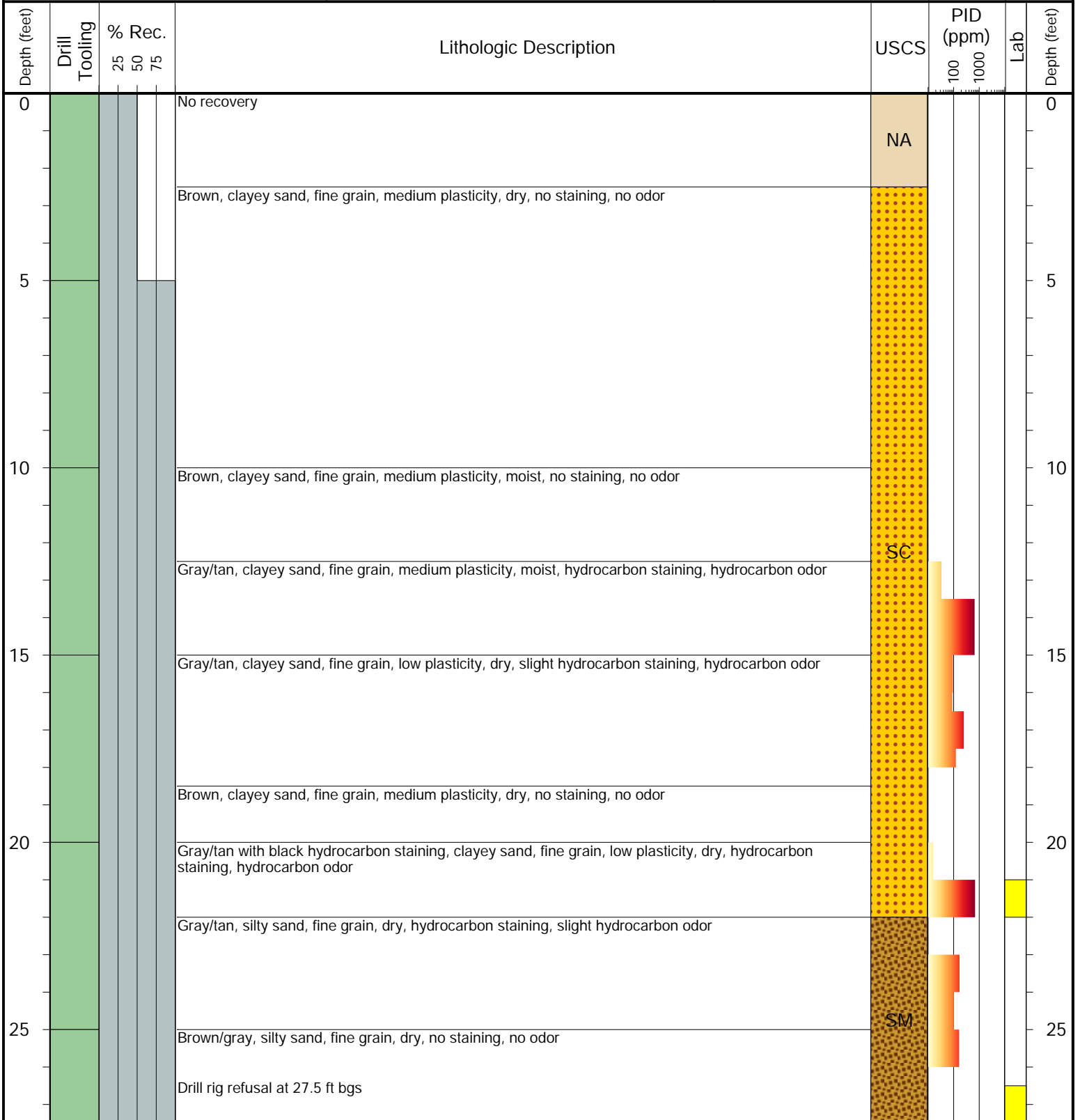
LATITUDE (NAD 83): 40.261289

LONGITUDE (NAD 83): -104.611465

GROUND ELEVATION (FT. AMSL): Not Measured

ABANDONMENT METHOD: Native Soil

4725 Independence St.  
Wheat Ridge, CO 80033



**Drilling / Sample Method:**

- Macro-Core
- Hand Auger
- Expendable Well Tip
- HydroPunch Groundwater Sampler

**Laboratory Sample Types:**

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



CLIENT: Noble Energy, Inc.

LOGGED BY: K. Hoag / P. Downs

PROJECT MANAGER: E. Vonde

DRILLING CONTRACTOR: Tasman

DRILLING EQUIPMENT: Geoprobe

DRILL BIT SIZE (INCHES): 2.375

DATE STARTED - COMPLETED: 11/14/24 - 11/14/24

TOTAL WELL DEPTH (FT. BGS): 28

DEPTH TO WATER (FT. BGS): Not Encountered

Houndskeeper H01-17 Tank Battery

BORING ID: BH19

LOCATION: W of BH09

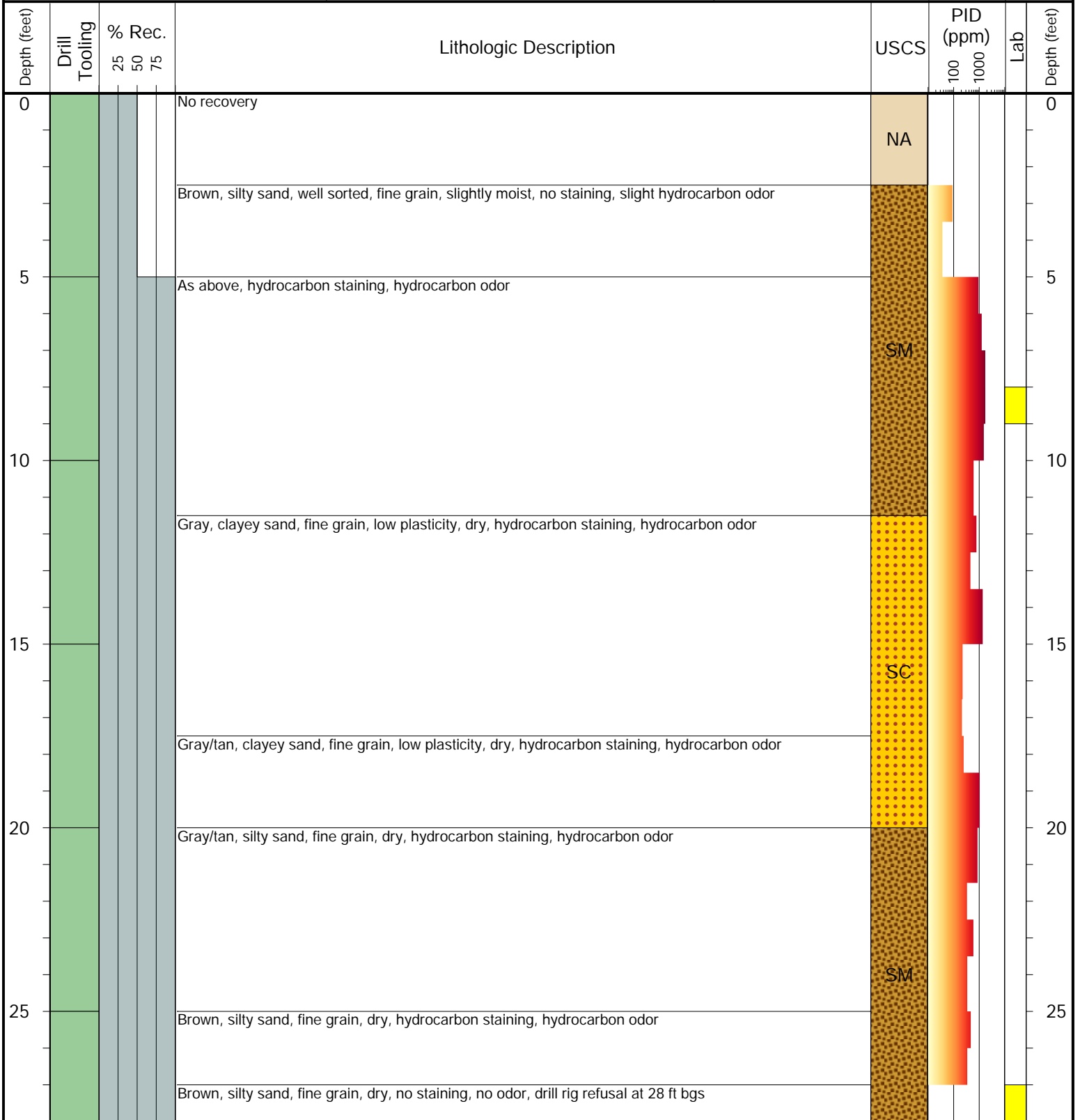
LATITUDE (NAD 83): 40.261165

LONGITUDE (NAD 83): -104.611356

GROUND ELEVATION (FT. AMSL): Not Measured

ABANDONMENT METHOD: Native Soil

4725 Independence St.  
Wheat Ridge, CO 80033



Drilling / Sample Method:

- Macro-Core
- Hand Auger
- Expendable Well Tip
- HydroPunch Groundwater Sampler

Laboratory Sample Types:

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



CLIENT: Noble Energy, Inc.

LOGGED BY: K. Hoag / P. Downs

PROJECT MANAGER: E. Vonde

DRILLING CONTRACTOR: Tasman

DRILLING EQUIPMENT: Geoprobe

DRILL BIT SIZE (INCHES): 2.375

DATE STARTED - COMPLETED: 11/14/24 - 11/14/24

TOTAL WELL DEPTH (FT. BGS): 28

DEPTH TO WATER (FT. BGS): Not Encountered

Houndskeeper H01-17 Tank Battery

BORING ID: BH20

LOCATION: N of BKG04

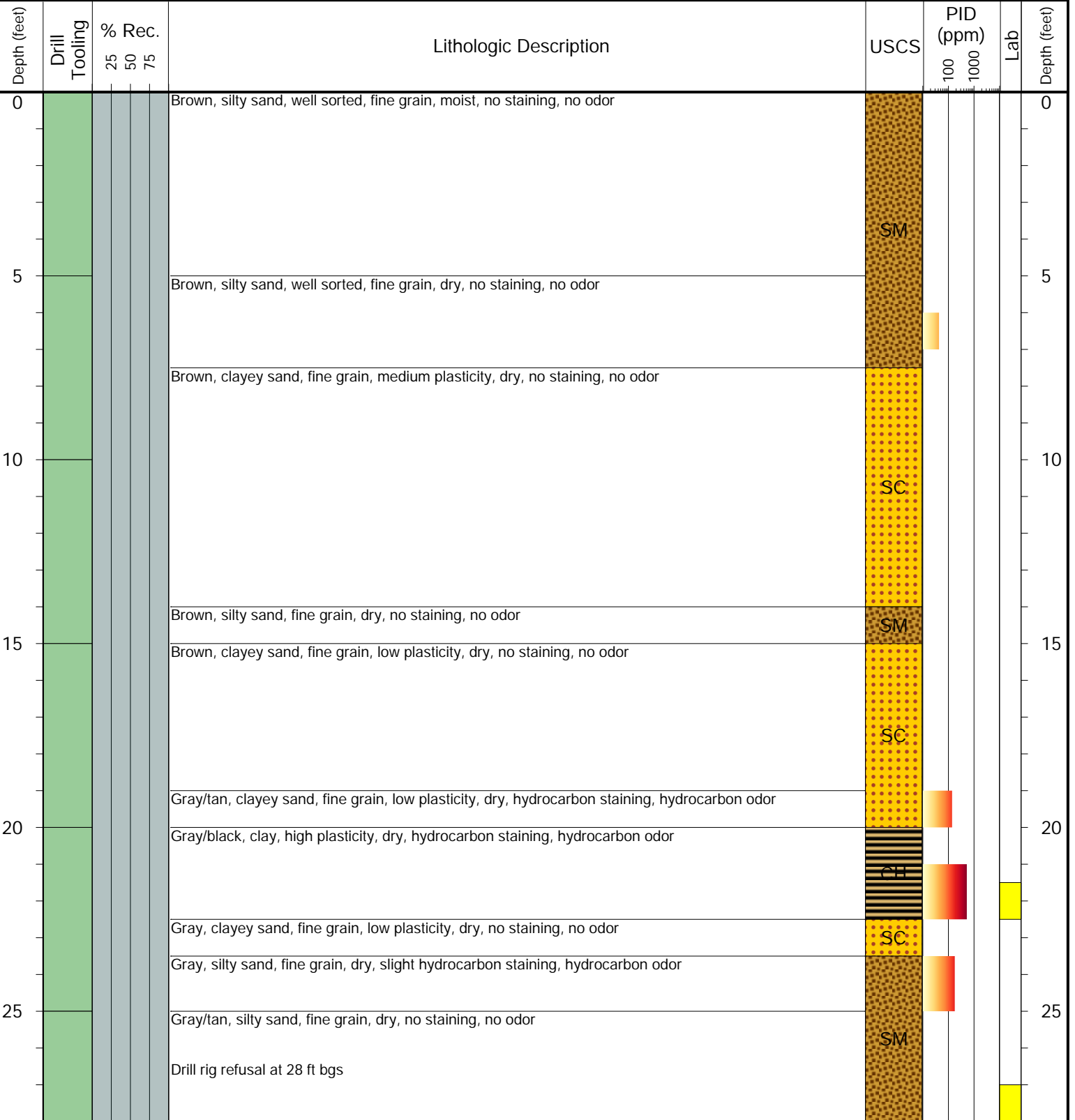
LATITUDE (NAD 83): 40.261281

LONGITUDE (NAD 83): -104.611655

GROUND ELEVATION (FT. AMSL): Not Measured

ABANDONMENT METHOD: Native Soil

4725 Independence St.  
Wheat Ridge, CO 80033



**Drilling / Sample Method:**

- Macro-Core
- Hand Auger
- Expendable Well Tip
- HydroPunch Groundwater Sampler

**Laboratory Sample Types:**

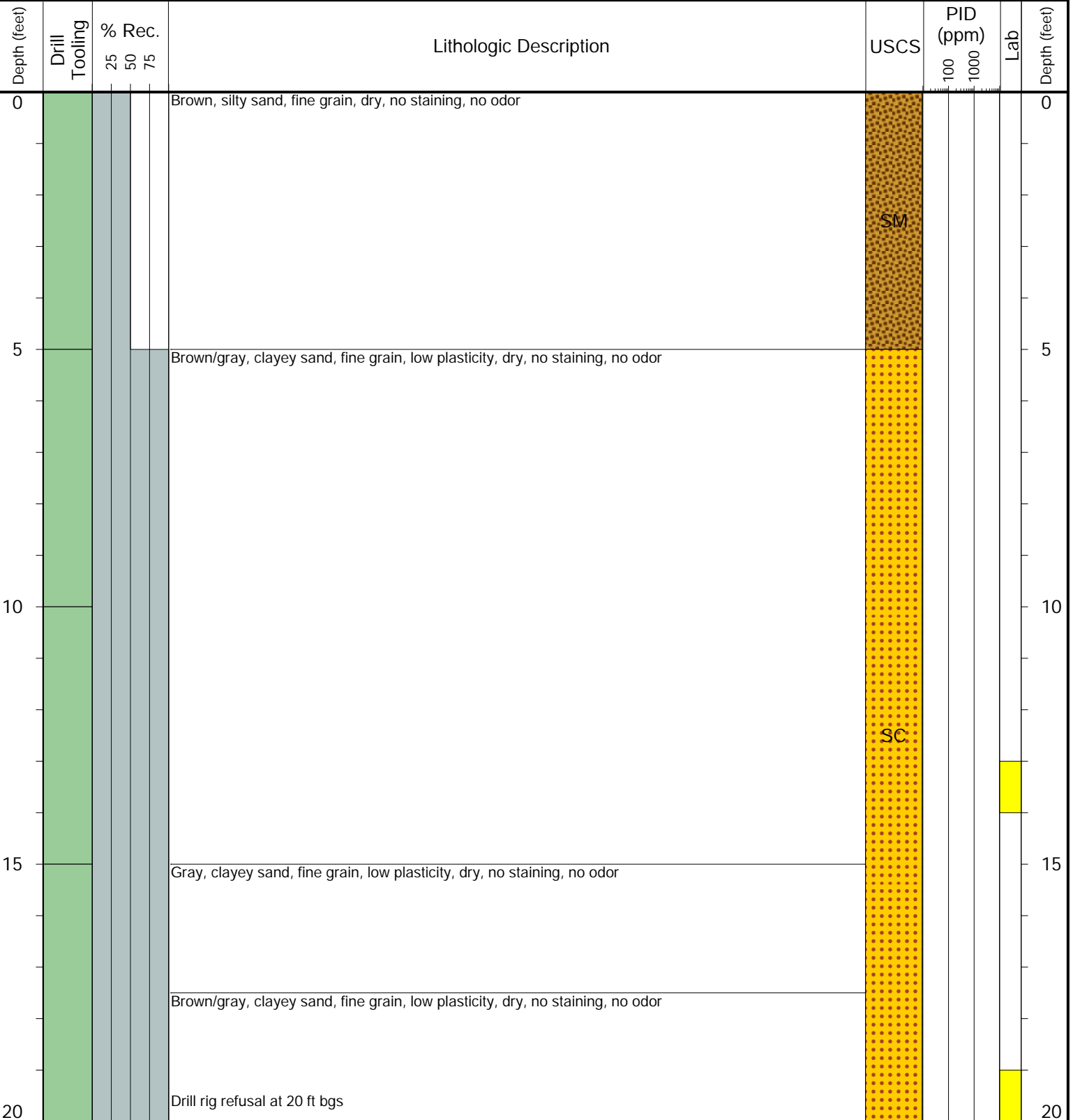
- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



**CLIENT:** Noble Energy, Inc.  
**LOGGED BY:** K. Hoag / P. Downs  
**PROJECT MANAGER:** E. Vonde  
**DRILLING CONTRACTOR:** Tasman  
**DRILLING EQUIPMENT:** Geoprobe  
**DRILL BIT SIZE (INCHES):** 2.375  
**DATE STARTED - COMPLETED:** 11/14/24 - 11/14/24  
**TOTAL WELL DEPTH (FT. BGS):** 20  
**DEPTH TO WATER (FT. BGS):** Not Encountered

**Houndskeeper H01-17 Tank Battery**  
**BORING ID:** BH21  
**LOCATION:** S of BH19  
**LATITUDE (NAD 83):** 40.261058  
**LONGITUDE (NAD 83):** -104.611383  
**GROUND ELEVATION (FT. AMSL):** Not Measured  
**ABANDONMENT METHOD:** Native Soil

**4725 Independence St.**  
**Wheat Ridge, CO 80033**



**Drilling / Sample Method:**

- Macro-Core
- Hand Auger
- Expendable Well Tip
- HydroPunch Groundwater Sampler

**Laboratory Sample Types:**

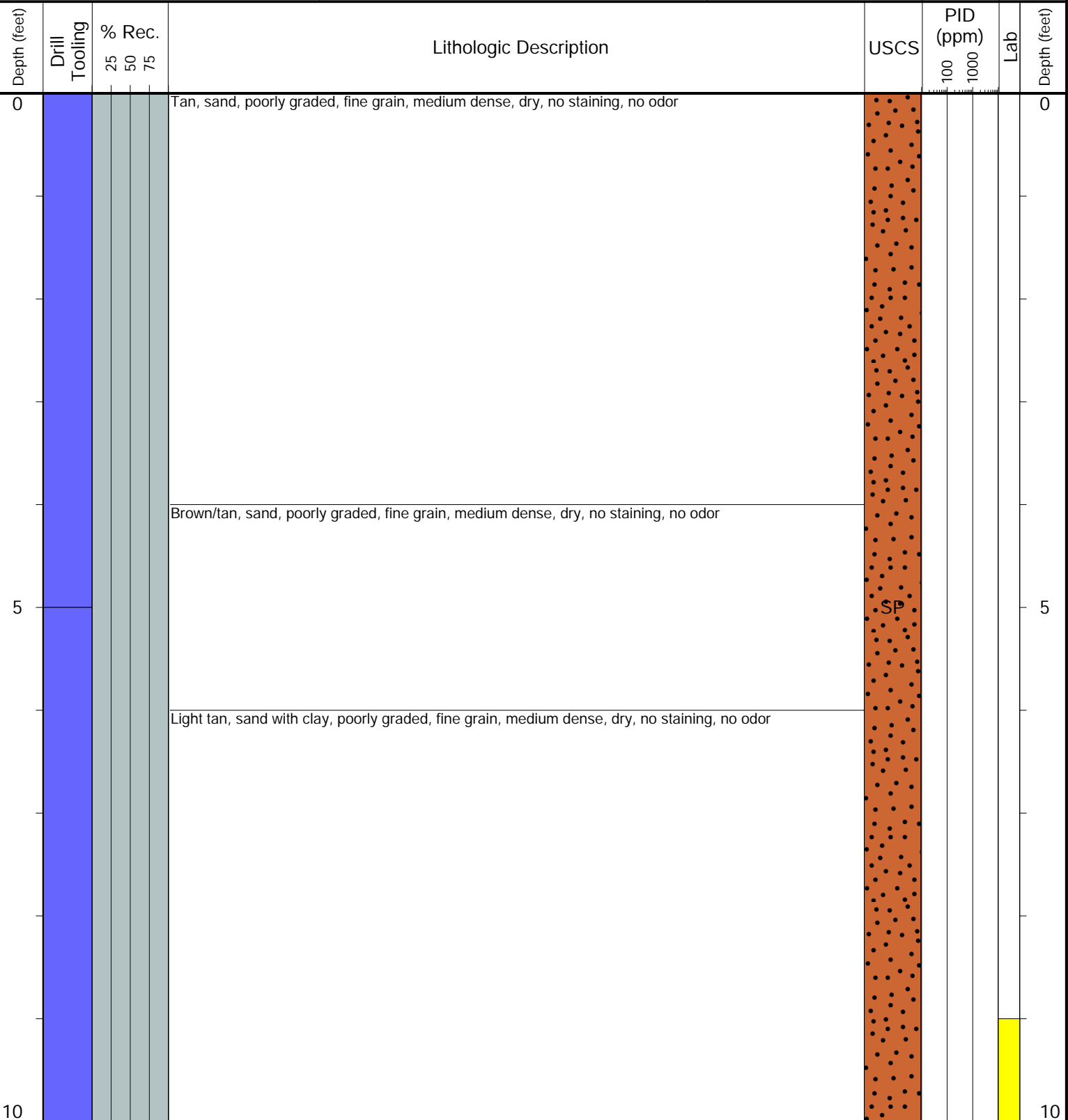
- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



**CLIENT:** Noble Energy, Inc.  
**LOGGED BY:** M. Reynolds  
**PROJECT MANAGER:** E. Vonde  
**DRILLING CONTRACTOR:** Tasman  
**DRILLING EQUIPMENT:** Hand Auger  
**DRILL BIT SIZE (INCHES):** 3.25  
**DATE STARTED - COMPLETED:** 10/29/24 - 10/29/24  
**TOTAL WELL DEPTH (FT. BGS):** 10  
**DEPTH TO WATER (FT. BGS):** Not Encountered

**Houndskeeper H01-17 Tank Battery**  
**BORING ID:** BKG01  
**LOCATION:** S of Separators  
**LATITUDE (NAD 83):** 40.261112  
**LONGITUDE (NAD 83):** -104.611007  
**GROUND ELEVATION (FT. AMSL):** Not Measured  
**ABANDONMENT METHOD:** Native Soil

**4725 Independence St.**  
**Wheat Ridge, CO 80033**



**Drilling / Sample Method:**

- Macro-Core
- Hand Auger
- Expendable Well Tip
- HydroPunch Groundwater Sampler

**Laboratory Sample Types:**

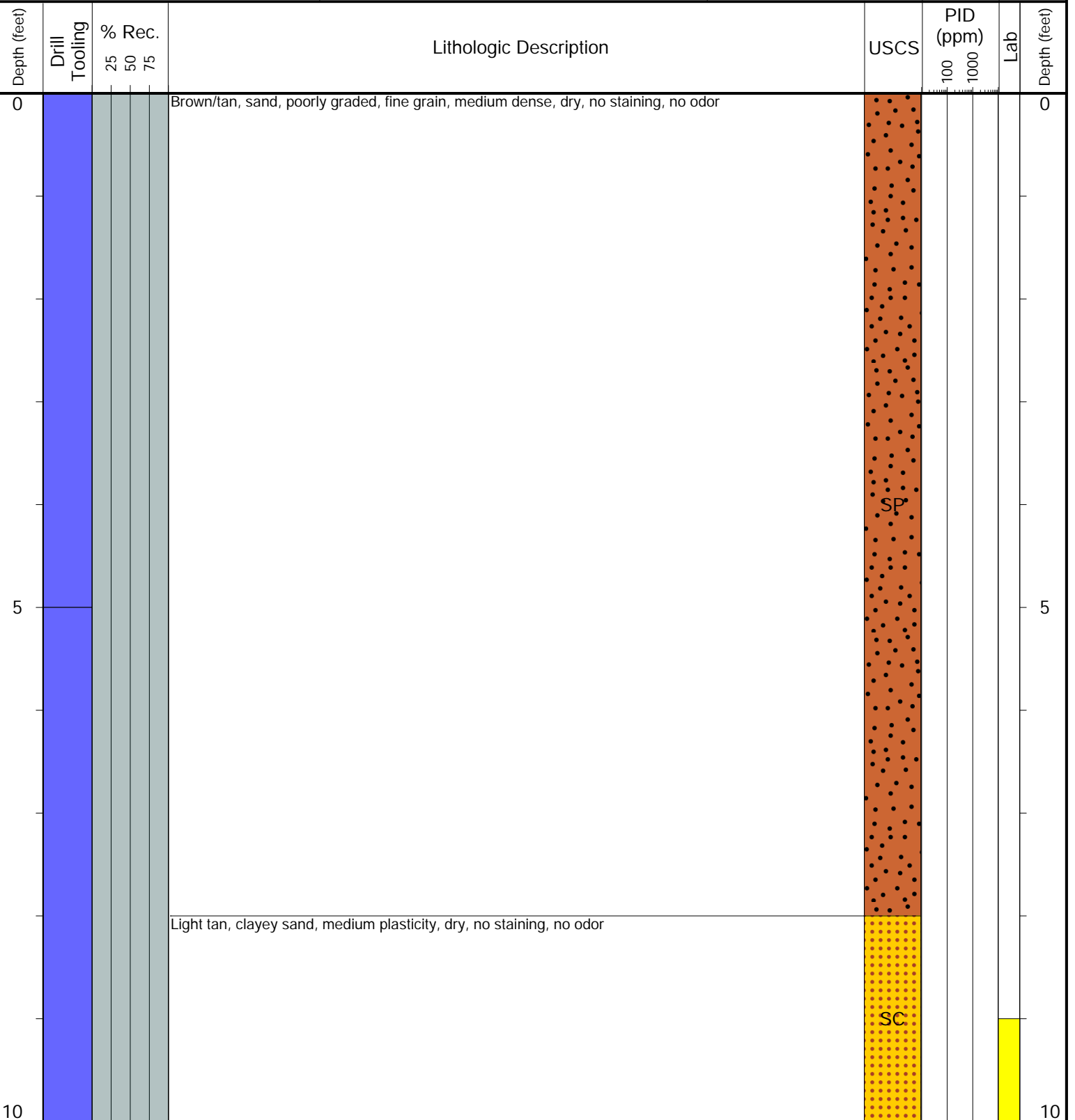
- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



**CLIENT:** Noble Energy, Inc.  
**LOGGED BY:** M. Reynolds  
**PROJECT MANAGER:** E. Vonde  
**DRILLING CONTRACTOR:** Tasman  
**DRILLING EQUIPMENT:** Hand Auger  
**DRILL BIT SIZE (INCHES):** 3.25  
**DATE STARTED - COMPLETED:** 10/29/24 - 10/29/24  
**TOTAL WELL DEPTH (FT. BGS):** 10  
**DEPTH TO WATER (FT. BGS):** Not Encountered

**Houndskeeper H01-17 Tank Battery**  
**BORING ID:** BKG02  
**LOCATION:** NE of facility  
**LATITUDE (NAD 83):** 40.261356  
**LONGITUDE (NAD 83):** -104.610863  
**GROUND ELEVATION (FT. AMSL):** Not Measured  
**ABANDONMENT METHOD:** Native Soil

**4725 Independence St.**  
**Wheat Ridge, CO 80033**



**Drilling / Sample Method:**

- Macro-Core
- Hand Auger
- Expendable Well Tip
- HydroPunch Groundwater Sampler

**Laboratory Sample Types:**

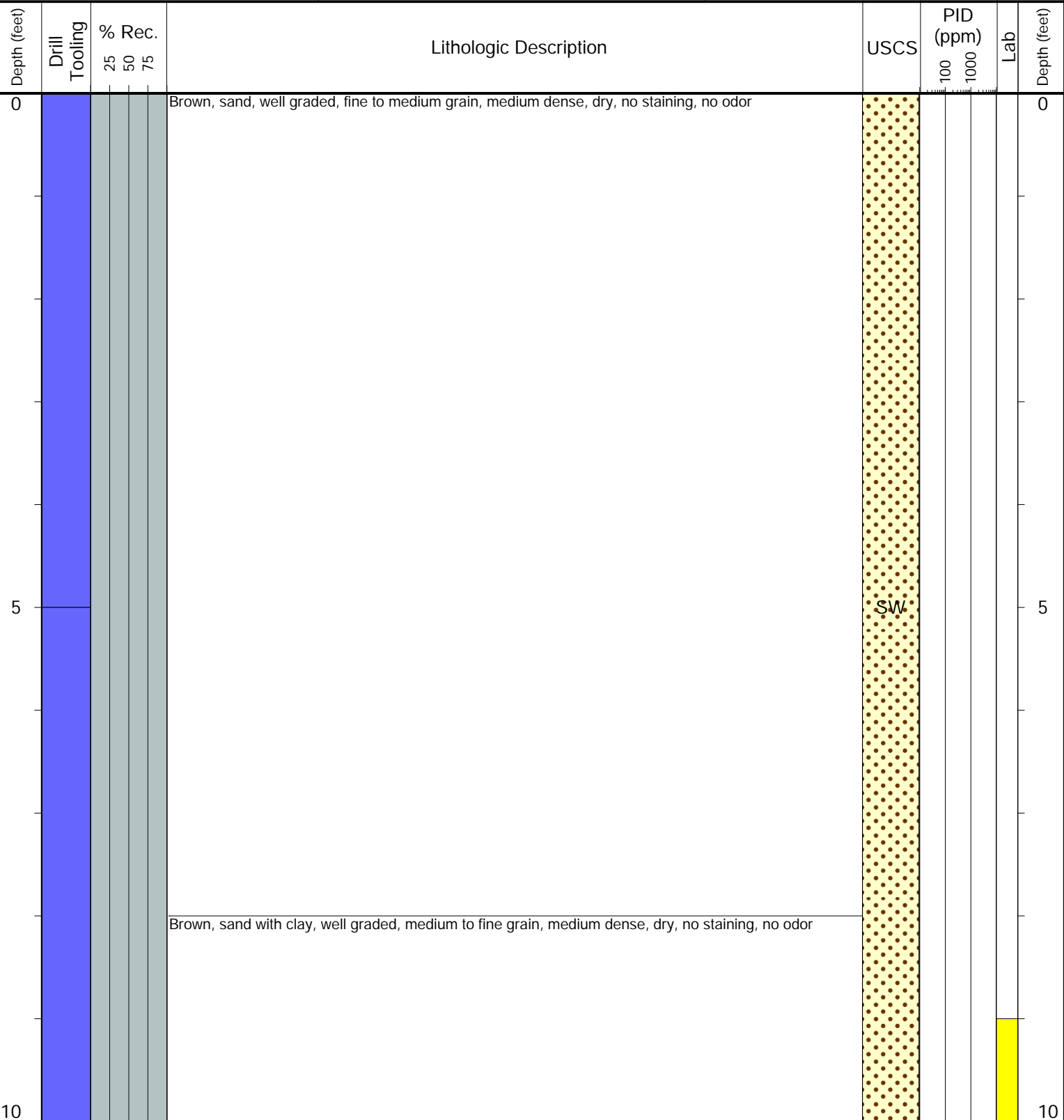
- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



**CLIENT:** Noble Energy, Inc.  
**LOGGED BY:** M. Reynolds  
**PROJECT MANAGER:** E. Vonde  
**DRILLING CONTRACTOR:** Tasman  
**DRILLING EQUIPMENT:** Hand Auger  
**DRILL BIT SIZE (INCHES):** 3.25  
**DATE STARTED - COMPLETED:** 10/29/24 - 10/29/24  
**TOTAL WELL DEPTH (FT. BGS):** 10  
**DEPTH TO WATER (FT. BGS):** Not Encountered

**Houndskeeper H01-17 Tank Battery**  
**BORING ID:** BKG03  
**LOCATION:** NE of BKG01  
**LATITUDE (NAD 83):** 40.261168  
**LONGITUDE (NAD 83):** -104.610862  
**GROUND ELEVATION (FT. AMSL):** Not Measured  
**ABANDONMENT METHOD:** Native Soil

**4725 Independence St.**  
**Wheat Ridge, CO 80033**



**Drilling / Sample Method:**

- Macro-Core
- Hand Auger
- Expendable Well Tip
- HydroPunch Groundwater Sampler

**Laboratory Sample Types:**

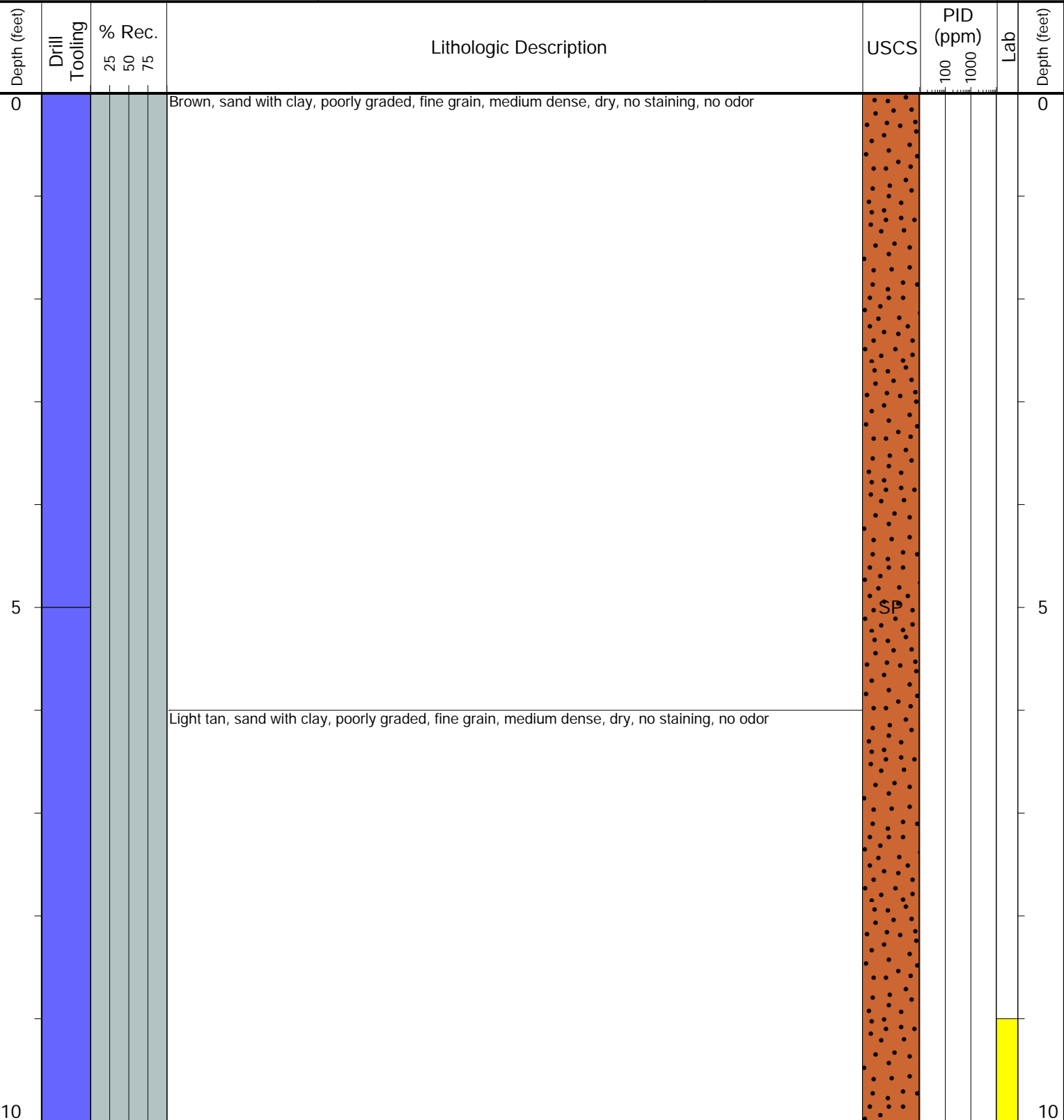
- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



**CLIENT:** Noble Energy, Inc.  
**LOGGED BY:** M. Reynolds  
**PROJECT MANAGER:** E. Vonde  
**DRILLING CONTRACTOR:** Tasman  
**DRILLING EQUIPMENT:** Hand Auger  
**DRILL BIT SIZE (INCHES):** 3.25  
**DATE STARTED - COMPLETED:** 10/29/24 - 10/29/24  
**TOTAL WELL DEPTH (FT. BGS):** 10  
**DEPTH TO WATER (FT. BGS):** Not Encountered

**Houndskeeper H01-17 Tank Battery**  
**BORING ID:** BKG04  
**LOCATION:** W of facility  
**LATITUDE (NAD 83):** 40.261258  
**LONGITUDE (NAD 83):** -104.611659  
**GROUND ELEVATION (FT. AMSL):** Not Measured  
**ABANDONMENT METHOD:** Native Soil

**4725 Independence St.**  
**Wheat Ridge, CO 80033**



**Drilling / Sample Method:**

- Macro-Core
- Hand Auger
- Expendable Well Tip
- HydroPunch Groundwater Sampler

**Laboratory Sample Types:**

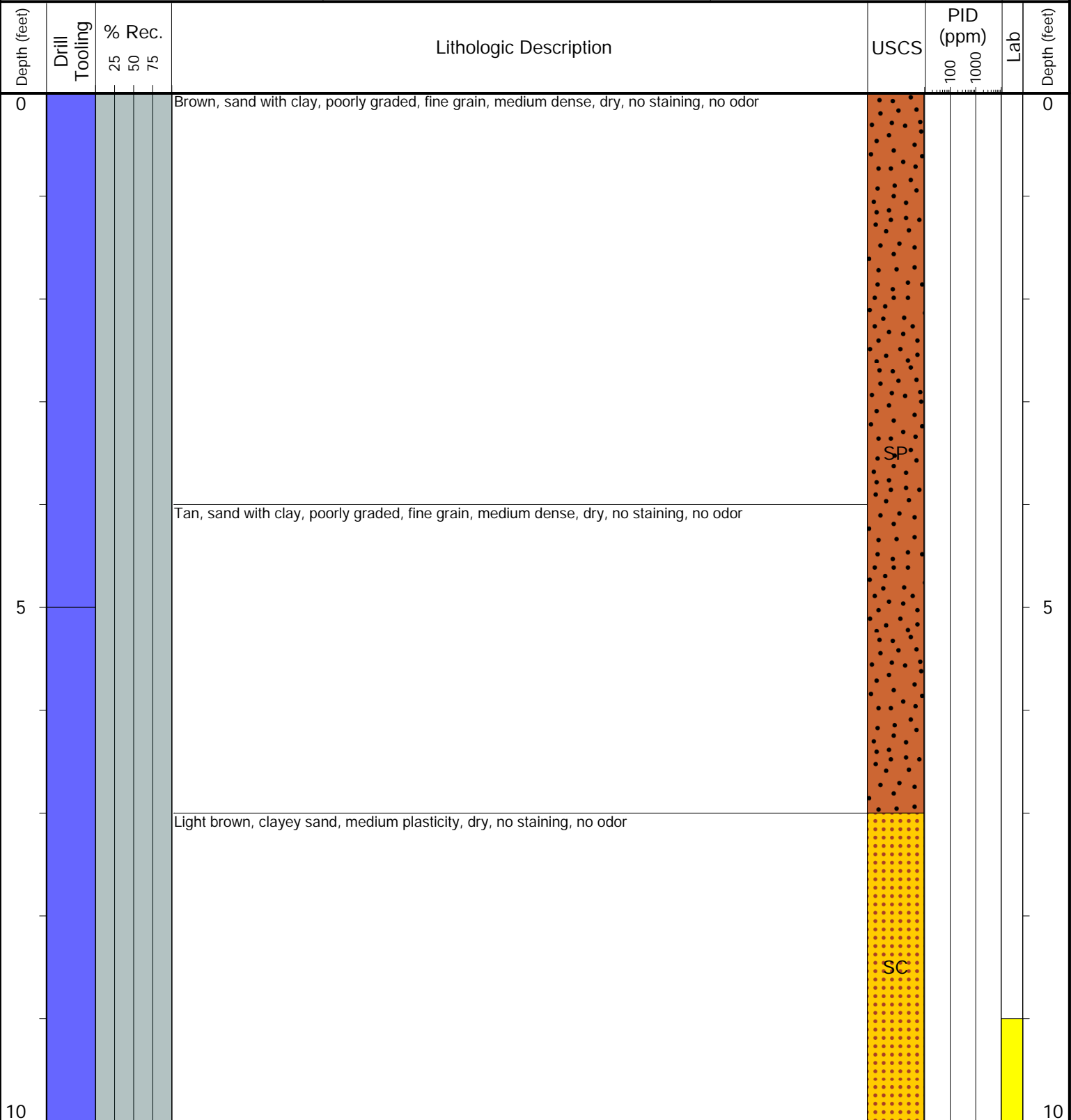
- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



**CLIENT:** Noble Energy, Inc.  
**LOGGED BY:** M. Reynolds  
**PROJECT MANAGER:** E. Vonde  
**DRILLING CONTRACTOR:** Tasman  
**DRILLING EQUIPMENT:** Hand Auger  
**DRILL BIT SIZE (INCHES):** 3.25  
**DATE STARTED - COMPLETED:** 10/29/24 - 10/29/24  
**TOTAL WELL DEPTH (FT. BGS):** 10  
**DEPTH TO WATER (FT. BGS):** Not Encountered

**Houndskeeper H01-17 Tank Battery**  
**BORING ID:** BKG05  
**LOCATION:** S of BKG04  
**LATITUDE (NAD 83):** 40.261132  
**LONGITUDE (NAD 83):** -104.611647  
**GROUND ELEVATION (FT. AMSL):** Not Measured  
**ABANDONMENT METHOD:** Native Soil

**4725 Independence St.**  
**Wheat Ridge, CO 80033**



**Drilling / Sample Method:**

- Macro-Core
- Hand Auger
- HydroPunch Groundwater Sampler
- Expendable Well Tip

**Laboratory Sample Types:**

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab