FREMONT ENVIRONMENTAL INC.

December 27, 2024

Mr. Daniel Peterson
Noble Energy Inc.
2115 117th Avenue
Greeley, CO 80634

Subject: **Excavation Report**
Goldberg N14-20D, N14-13 Flowlines
NWSW Sec. 14, T5N, R67W
API # 05-123-30115
Weld County, Colorado
Fremont Project No. C023-211
Remediation #29206

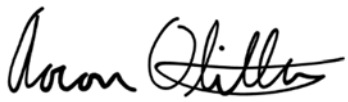
Dear Mr. Peterson:

Enclosed please find a copy of the above referenced Excavation Report for the Goldberg N 14-20D, N14-13 flowlines release site in Weld County, Colorado. The enclosed report describes excavation actions to remediate impacted soil and groundwater at the site.

Please contact me at (336) 541-3048 if you require any additional information.

Fremont appreciates the opportunity to provide this service.

Sincerely,
FREMONT ENVIRONMENTAL INC.



Aaron Otillar
Consultant

Enclosure

1759 REDWING LANE, BROOMFIELD, CO 80020
(303) 956-8714 (DIRECT)

EXCAVATION REPORT

NOBLE ENERGY INC.

GOLDBERG N14-20D, N14-13 FLOWLINES

WELD COUNTY, COLORADO

FREMONT PROJECT NO. C023-211

API # 05-123-30115 REMEDIATION #29206

Prepared by:

Fremont Environmental Inc.
1759 Redwing Lane
Broomfield, CO 80020
(303) 956-8714

December 27, 2024

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NOBLE ENERGY INC.

GOLDBERG N14-20D, N14-13 FLOWLINES

WELD COUNTY, COLORADO

FREMONT PROJECT NO. C023-211

API # 05-123-30115 REMEDIATION #29206

1.0 INTRODUCTION

The purpose of this document is to present information collected during the excavation of impacted soil at the Goldberg N14-20D, and N14-13 (Goldberg) flowline release locations in Weld County, Colorado. Excavation of impacted soil was completed on October 15, 2024.

2.0 BACKGROUND INFORMATION

2.1 Site Location

The Goldberg site is located approximately 8.5 miles west of Greeley, Colorado in Weld County as shown on Figure 1. The site is located in an agricultural area approximately 0.25 miles northeast of the intersection of County Road 56 and State Highway 257. The location is further described as the NW ¼ of the SW ¼ of Section 14, Township 5N, Range 67W.

2.2 Site History

The Goldberg N14-20D natural gas well was completed in April 2010 to a measured depth of 7,371 feet and the Goldberg N14-13 natural gas well was completed in November 2002 to a measured depth of 7,317 feet. Soil impacts related to a historical release at the separators servicing the Goldberg N14-20D and Goldberg N14-13 natural gas wells were observed following flowline decommissioning activities completed in August 2023.

3.0 FIELD ACTIVITIES

Remediation efforts consisted of the excavation of impacted soil at and adjacent to the release area. The subsurface generally consisted of six inches of road base underlain by seven feet of well-graded clayey sand to seven feet below ground surface (bgs) within the excavation. Groundwater was not encountered within the excavation and is estimated to be 235 feet bgs based on a DWR Well Completion and Pump Installation Report (Permit No. 150855) for a domestic well located 9,260 feet northwest of the former Goldberg location.

Excavation of the release area began on October 14, 2024 and was completed on October 15, 2024. Seven soil samples were collected from the 30'x25'x7' deep Goldberg excavation over the course of the two-day excavation. Samples were collected from the excavation sidewalls at three feet bgs and from the excavation floor at seven feet bgs and field screened using a photoionization detector (PID). All soil samples collected within the excavation were submitted for analysis.

The soil samples were analyzed by Summit Scientific Inc. in Golden, Colorado for benzene, toluene, ethylbenzene and total xylenes (BTEX), naphthalene, 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene (TMB), total petroleum hydrocarbons (TPH) – gasoline range organics (TPH-GRO) by EPA Method 8260B, and TPH – diesel range organics (TPH-DRO) and TPH - residual range organics (TPH-ORO) by EPA Method 8015, polycyclic aromatic hydrocarbons (PAHs): acenaphthene, anthracene, benzo (a) anthracene, benzo (a) pyrene, benzo (b) fluoranthene, chrysene, dibenz (a,h) anthracene, fluoranthene, fluorene, indeno (1,2,3-cd) pyrene, pyrene, 1-methylnaphthalene, 2-methylnaphthalene by EPA method 8270D, Total Metals by EPA method 6020B, and hexavalent chromium by EPA method 7196, sodium absorption ratio (SAR) by EPA 6020/USDA60 6(2) saturated paste extraction method, specific

conductance by EPA Method 120.1 saturated paste extraction and, pH by APHA/ASTM/EPA Methods, saturated paste extraction. The laboratory's reports and chain-of-custody documentation are included in Appendix B and summarized in Tables 2 to 5.

The laboratory analyses indicate that petroleum constituents in soil samples collected from the excavation achieved the ECMC Table 915-1 Protection of Groundwater Standards (PGSSLs) for petroleum constituents. However, all seven samples collected within the excavation exceeded the ECMC Table 915-1 Soil Suitability for Reclamation (SSR) standards for pH. ECMC Table 915-1 metals greater the Table 915-1 concentration standards, were less than 125% of the maximum local background samples for all excavation confirmation samples.

Approximately 220 cubic yards of impacted soil were removed via backhoe by Tasman Geosciences Inc. during the excavation. The impacted soil was disposed of at the Ault Landfill in Ault, Colorado as non-hazardous waste. The excavation was backfilled using clean, imported fill.

4.0 DISCUSSION

As demonstrated by the soil sampling, petroleum impacted soil was removed from the release area at the Goldberg location by excavation. This was confirmed by the analyses of soil samples collected from the excavation which were below the ECMC Table 915-1 PGSSLs for petroleum constituents.

Approximately 220 cubic yards of impacted soil were removed and transported to the landfill. The soil data are illustrated and summarized in the attached tables and figures. Elevated concentrations of pH constituents greater than the Table 915-1 standards remain in situ in all seven excavation confirmation sample locations. The Operator proposes to

resample SSR constituents greater than the ECMC Table 915-1 SSR standards and maximum background concentrations. In addition to resampling locations with elevated SSR constituent concentrations, the Operator proposes to collect additional background samples from five locations in an area not impacted by oil and gas development at similar depths (3' and 7') and lithologies as confirmation samples collected at the location and analyzed for ECMC Table 915-1 SSR constituents (pH, EC, SAR, and Boron). The samples will be used to characterize native soil conditions and potentially attribute elevated pH concentrations to native soil conditions.

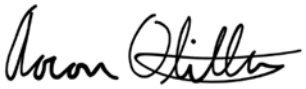
The Operator proposes to apply the ECMC Table 915-1 RSSLs as closure criteria for remedial actions conducted at the site. A pathway for groundwater communication with elevated metals cadmium and lead observed along the Goldberg N 14-20D flowline at the "20FL01@4.0 Ft" sample location, and within the excavation between three feet and seven feet, is unlikely to occur based on 232 feet of vertical separation between groundwater, measured at 235 feet in a nearby stock well (DWR Permit No. 150855) and the seven-feet maximum depth of the excavation.

Since ECMC Table 915-1 metals arsenic and barium, greater the Table 915-1 concentration standards, were less than 125% of the maximum local background sample concentrations for all excavation confirmation samples the Operator proposes to attribute elevated arsenic and barium concentrations to native soil conditions.

5.0 REMARKS

The discussion and conclusions contained in this report represent our professional opinions. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

This report was prepared by **FREMONT ENVIRONMENTAL INC.**



12/27/24

_____ Date_____

Aaron Otillar

Consultant

Reviewed by:

12/27/24

_____ Date_____

Paul V. Henehan, P.E.

Senior Consultant

TABLES

TABLE 1

FIELD DATA SUMMARY TABLE

NOBLE 100322

GOLDBERG N 14-13 & GOLDBERG N 14-20D, WELD COUNTY, COLORADO

REM # 29206

Sample ID	Sample Date	Depth (ft)	GPS Data Latitude/Longitude		PDOP Value	VOC Concentration (ppm)
13FL01@4.0'	8/1/2023	4.0 Ft	40.3950240	-104.8681769	NA	31.2 ppm
13FL02@6.0'	8/1/2023	6.0 Ft	40.3954035	-104.8682043	NA	0.0 ppm
13FL03@4.0'	8/1/2023	4.0 Ft	40.3958880	-104.8682219	NA	0.0 ppm
13FL04@5.0'	8/1/2023	5.0 Ft	40.3960387	-104.8682294	NA	0.0 ppm
13FL05@6.0'	7/31/2023	6.0 Ft	40.3960396	-104.8688682	NA	0.4 ppm
13FL04@5.0'	4/4/2024	5.0 Ft	40.3960387	-104.8682294	NA	0.0 ppm
20FL01@4.0'	7/29/2023	4.0 Ft	40.3979436	-104.8661336	NA	0.0 ppm
20FL02@4.0'	7/29/2023	4.0 Ft	40.3975159	-104.8667077	NA	0.0 ppm
20FL03@4.0'	7/29/2023	4.0 Ft	40.3972666	-104.8670926	NA	0.0 ppm
20FL04@4.0'	7/29/2023	4.0 Ft	40.3966327	-104.8680998	NA	0.0 ppm
20FL05@6.0'	7/31/2023	6.0 Ft	40.3960823	-104.8688854	NA	0.7 ppm
BKG01	8/1/2023	0.5 Ft, 5.0 Ft, 6.0 Ft	40.396379	-104.8692739	NA	0.0 ppm
BKG02	8/1/2023	0.5 Ft, 5.0 Ft, 6.0 Ft	40.3964637	-104.8688308	NA	0.0 ppm
BKG03	8/1/2023	0.5 Ft, 5.0 Ft, 6.0 Ft	40.3957155	-104.8693188	NA	0.0 ppm
BKG04	8/1/2023	0.5 Ft, 5.0 Ft, 6.0 Ft	40.3965615	-104.8691158	NA	0.0 ppm
BKG05	8/1/2023	0.5 Ft, 5.0 Ft, 6.0 Ft	40.3963514	-104.8684396	NA	0.0 ppm
S1@3'	10/15/2024	3'	40.3960227	-104.8688722	0.8	0.0 ppm
SE1@3'	10/15/2024	3'	40.3960376	-104.8688404	0.8	0.0 ppm
SW1@3'	10/15/2024	3'	40.3960400	-104.8689167	0.8	0.0 ppm
B1@7'	10/14/2024	7'	40.3960607	-104.8688796	NA	0.0 ppm
N1@3'	10/14/2024	3'	40.3961024	-104.8688804	0.8	0.0 ppm

TABLE 1

FIELD DATA SUMMARY TABLE

NOBLE 100322

GOLDBERG N 14-13 & GOLDBERG N 14-20D, WELD COUNTY, COLORADO

REM # 29206

Sample ID	Sample Date	Depth (ft)	GPS Data Latitude/Longitude		PDOP Value	VOC Concentration (ppm)
NE1@3'	10/14/2024	3'	40.3960817	-104.8688437	0.8	0.0 ppm
NW1@3'	10/14/2024	3'	40.3960809	-104.8689142	0.8	0.0 ppm

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

in. = Inches

ft. = Feet

bgs = Below ground surface

Material excavated and transported off site for disposal.

TABLE 2
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE 100322
GOLDBERG N 14-13 & GOLDBERG N 14-20D, WELD COUNTY, COLORADO
REM # 29206

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**	
13FL01@4.0'	8/1/2023	4.0 Ft	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<500*	*<0.50*	*<50*	*<50*
13FL05@6.0'	7/31/2023	6.0 Ft	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<500*	*<0.50*	*<50*	*<50*
13FL04@4.0'	4/4/2024	4.0 Ft	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<500*	*<0.50*	*<50*	*<50*
20FL01@4.0'	7/29/2023	4.0 Ft	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<500*	*<0.50*	*<50*	*<50*
20FL05@6.0'	7/31/2023	6.0 Ft	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	**0.019**	**0.025**	*<0.0038*	*<500*	32	77	*<50*
S1@3'	10/15/2024	3'	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<500*	*<0.50*	*<50*	*<50*
SE1@3'	10/15/2024	3'	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<500*	*<0.50*	*<50*	*<50*
SW1@3'	10/15/2024	3'	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<500*	*<0.50*	*<50*	*<50*
B1@7'	10/14/2024	7'	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<500*	*<0.50*	*<50*	*<50*
N1@3'	10/14/2024	3'	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<500*	*<0.50*	*<50*	*<50*
NE1@3'	10/14/2024	3'	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<500*	*<0.50*	*<50*	*<50*
NW1@3'	10/14/2024	3'	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<500*	*<0.50*	*<50*	*<50*

1. Bold values exceed the ECMC Table 915-1 limit(s)
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
3. * Indicates laboratory minimum detection limit in excess of SSL
4. ** Summation of GRO+DRO+ORO must be less than 500 mg/kg

(<) = Analytical result is less than the indicated laboratory reporting limit.
TPH-GRO = Total petroleum hydrocarbons - gasoline range organics
TPH-DRO = Total petroleum hydrocarbons - diesel range organics
TPH-ORO = Total petroleum hydrocarbons - oil range organics
mg/kg = Milligrams per kilogram
ft. = Feet
bgs = Below ground surface
NA - Not analyzed
Material excavated and transported off site for disposal.

TABLE 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE 100322
GOLDBERG N 14-13 & GOLDBERG N 14-20D, WELD COUNTY, COLORADO
REM # 29206

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
13FL01@4.0'	8/1/2023	4.0 Ft	*<0.00500*	*<0.00500*	0.0104	0.0130	0.0212	0.00763	0.0109	*<0.00500*	0.0293	*<0.00500*	0.0109	0.0223	*<0.00500*	*<0.00500*
13FL05@6.0'	7/31/2023	6.0 Ft	0.0768	0.222	**0.837**	**1.21**	**1.60**	0.592	0.673	*<0.00500*	1.49	0.0981	0.940	1.20	*<0.00500*	0.00881
13FL04@4.0'	4/4/2024	4.0 Ft	*<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*
20FL01@4.0'	7/29/2023	4.0 Ft	*<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*
20FL05@6.0'	7/31/2023	6.0 Ft	*<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*
S1@3'	10/15/2024	3'	*<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*
SE1@3'	10/15/2024	3'	*<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*
SW1@3'	10/15/2024	3'	*<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*
B1@7'	10/14/2024	7'	*<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*
N1@3'	10/14/2024	3'	*<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*
NE1@3'	10/14/2024	3'	*<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*
NW1@3'	10/14/2024	3'	*<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*

1. Bold values exceed the ECMC Table 915-1 limit(s)
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
3. * Indicates laboratory minimum detection limit in excess of SSL
4. ** Summation of GRO+DRO+ORO must be less than 500 mg/kg
(<) = Analytical result is less than the indicated laboratory reporting limit.
TPH-GRO = Total petroleum hydrocarbons - gasoline range organics
TPH-DRO = Total petroleum hydrocarbons - diesel range organics
TPH-ORO = Total petroleum hydrocarbons - oil range organics
mg/kg = Milligrams per kilogram
ft. = Feet
bgs = Below ground surface
NA - Not analyzed
Material excavated and transported off site for disposal.

TABLE 4

SUMMARY OF SOIL SUITABILITY FOR RECLAMATION

NOBLE 100322

GOLDBERG N 14-13 & GOLDBERG N 14-20D, WELD COUNTY, COLORADO

REM # 29206

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
13FL01@4.0'	8/1/2023	4.0 Ft	7.98	0.27	0.286	0.145
13FL05@6.0'	7/31/2023	6.0 Ft	8.08	0.425	1.66	*<0.0100*
13FL04@4.0'	4/4/2024	4.0 Ft	8.27	0.22	0.73	*<2.00*
20FL01@4.0'	7/29/2023	4.0 Ft	8.1	0.22	0.0649	*<0.0100*
20FL05@6.0'	7/31/2023	6.0 Ft	7.88	0.232	0.118	*<0.0100*
S1@3'	10/15/2024	3'	**8.77**	1.3	0.0688	*<2.00*
SE1@3'	10/15/2024	3'	**8.78**	0.291	0.193	*<2.00*
SW1@3'	10/15/2024	3'	**8.44**	2.48	0.428	*<2.00*
B1@7'	10/14/2024	7'	**8.75**	0.185	0.461	*<2.00*
N1@3'	10/14/2024	3'	**8.77**	0.139	0.0998	*<2.00*
NE1@3'	10/14/2024	3'	**8.81**	0.163	0.209	*<2.00*
NW1@3'	10/14/2024	3'	**8.54**	0.16	0.0966	*<2.00*
BKG01@6.0"	8/1/2023	0.5 Ft	7.25	0.257	0.0756	0.13
BKG01@5.0'	8/1/2023	5.0 Ft	8.28	0.625	4.15	0.323
BKG01@6.0'	8/1/2023	6.0 Ft	8.21	0.436	2.43	0.189
BKG02@6.0"	8/1/2023	0.5 Ft	7.57	0.239	0.185	0.115
BKG02@5.0'	8/1/2023	5.0 Ft	**8.32**	0.437	2.49	0.11
BKG02@6.0'	8/1/2023	6.0 Ft	8.26	0.393	1.99	0.113
BKG03@6.0"	8/1/2023	0.5 Ft	7.24	0.252	0.2	0.118
BKG03@5.0'	8/1/2023	5.0 Ft	7.89	1.86	2.78	0.0811
BKG03@6.0'	8/1/2023	6.0 Ft	8.1	2.33	5.22	0.158
BKG04@6.0"	8/1/2023	0.5 Ft	7.77	0.255	0.0949	0.0624
BKG04@5.0'	8/1/2023	5.0 Ft	8.12	0.384	1.26	0.178
BKG04@6.0'	8/1/2023	6.0 Ft	**8.41**	1.62	**9.55**	0.61
BKG05@6.0"	8/1/2023	0.5 Ft	7.77	0.261	0.0839	0.157

TABLE 4

SUMMARY OF SOIL SUITABILITY FOR RECLAMATION

NOBLE 100322

GOLDBERG N 14-13 & GOLDBERG N 14-20D, WELD COUNTY, COLORADO

REM # 29206

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
BKG05@5.0'	8/1/2023	5.0 Ft	**8.43**	0.338	1.06	0.155
BKG05@6.0'	8/1/2023	6.0 Ft	**8.39**	0.56	2.91	0.158
Maximum Background Concentration			8.43	*NA*	*NA*	*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.

NA - Not analyzed

Material excavated and transported off site for disposal.

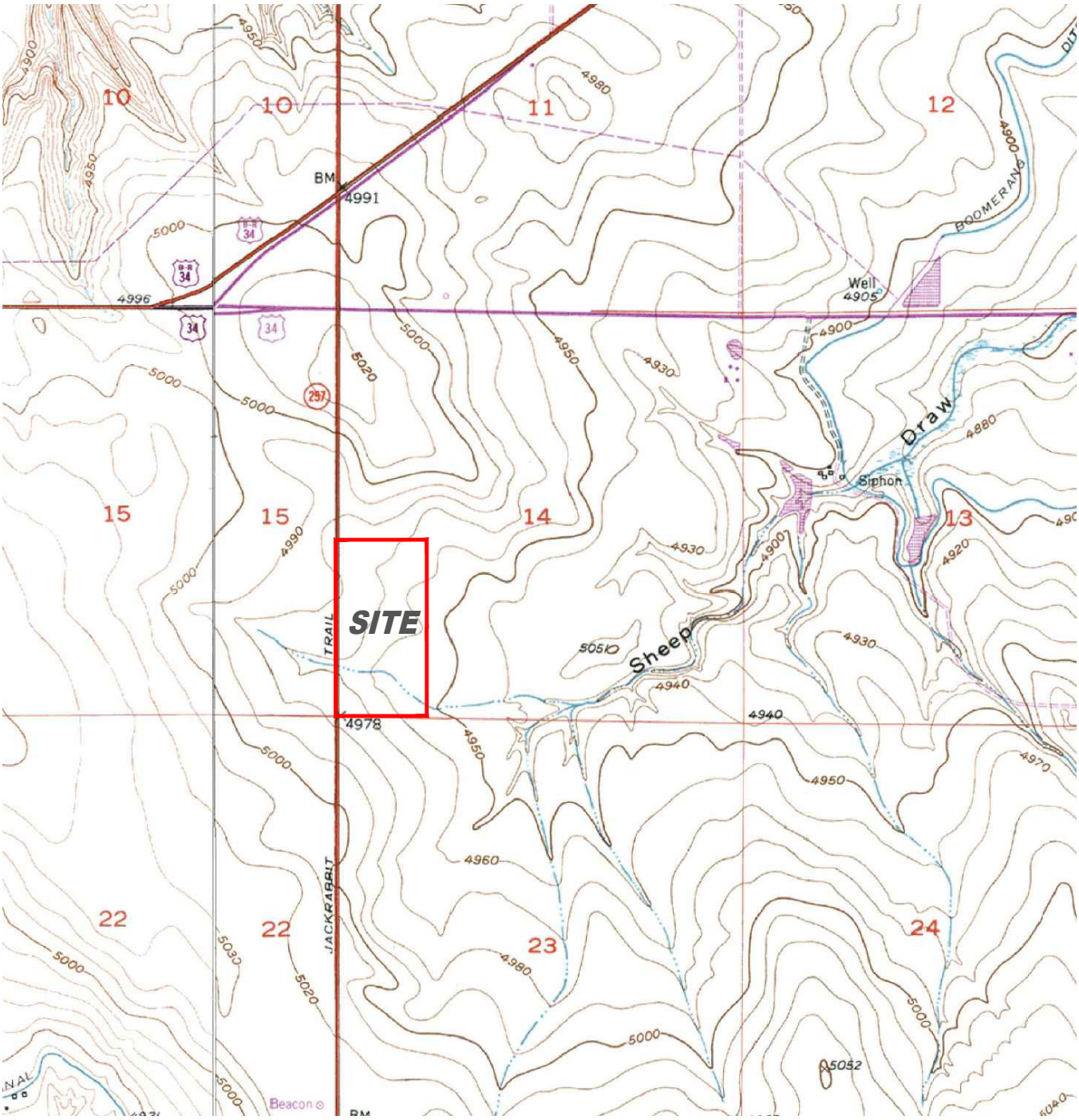
TABLE 5
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE 100322
GOLDBERG N 14-13 & GOLDBERG N 14-20D, WELD COUNTY, COLORADO
REM # 29206

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
13FL01@4.0'	8/1/2023	4.0 Ft	**1.09**	**133**	*<0.200*	*<0.30*	2.35	7.8	3.39	*<0.260*	0.0366	10.2
13FL05@6.0'	7/31/2023	6.0 Ft	**1.16**	**140**	*<0.200*	*<0.30*	2.36	6.52	3.4	*<0.260*	0.0393	9.62
13FL04@4.0'	4/4/2024	4.0 Ft	**6.18**	**154**	0.364	*<0.30*	6.44	11	7.8	*<0.260*	0.0682	23.6
20FL01@4.0'	7/29/2023	4.0 Ft	**1.21**	**101**	**0.872**	*<0.30*	6.02	**62**	3.35	*<0.311*	0.0316	23.5
20FL05@6.0'	7/31/2023	6.0 Ft	**1.07**	**85.6**	0.244	*<0.30*	2.89	4.61	3.56	*<0.311*	0.0292	10.2
S1@3'	10/15/2024	3'	**4.86**	**152**	0.319	*<0.30*	11.8	8.41	14.6	*<0.260*	0.0519	44.8
SE1@3'	10/15/2024	3'	**1.89**	56.6	*<0.200*	*<0.30*	4.17	4.62	5.18	*<0.260*	0.025	19.5
SW1@3'	10/15/2024	3'	**2.04**	60.4	*<0.200*	*<0.30*	4.46	4.64	5.52	*<0.260*	0.0277	20.8
B1@7'	10/14/2024	7'	**2.39**	**136**	0.269	*<0.30*	11.9	8.61	14.7	*<0.260*	0.0548	46.1
N1@3'	10/14/2024	3'	**2.5**	**149**	0.303	*<0.30*	6.03	8.98	7.64	*<0.260*	0.0469	22.9
NE1@3'	10/14/2024	3'	**2.65**	**153**	0.336	*<0.30*	6.49	9.38	7.74	*<0.260*	0.0524	24.4
NW1@3'	10/14/2024	3'	**2.39**	**159**	0.341	*<0.30*	14.1	9.45	17.5	*<0.260*	0.0463	53.9
BKG01@6.0"	8/1/2023	0.5 Ft	**6.15**	**149**	0.358	*<0.30*	7.08	10.4	8.35	*<0.260*	0.0904	23
BKG01@5.0'	8/1/2023	5.0 Ft	**4.15**	**117**	0.23	*<0.30*	5.37	7.51	6.45	*<0.260*	0.0416	19.6
BKG01@6.0'	8/1/2023	6.0 Ft	**3.99**	**129**	0.242	*<0.30*	5.24	7.06	6.59	*<0.260*	0.0392	19.8
BKG02@6.0"	8/1/2023	0.5 Ft	**5.23**	**130**	0.283	*<0.30*	6.27	9.85	7.82	*<0.260*	0.0804	20.1
BKG02@5.0'	8/1/2023	5.0 Ft	**4.08**	**142**	0.25	*<0.30*	5.18	7.38	6.37	*<0.260*	0.0409	18.7
BKG02@6.0'	8/1/2023	6.0 Ft	**4.18**	**166**	0.257	*<0.30*	5.32	7.38	6.39	*<0.260*	0.0426	19.4
BKG03@6.0"	8/1/2023	0.5 Ft	**4.67**	**130**	0.29	*<0.30*	5.77	10.8	6.93	*<0.260*	0.0597	19.3
BKG03@5.0'	8/1/2023	5.0 Ft	**4.65**	**127**	0.287	*<0.30*	5.82	7.96	6.78	*<0.260*	0.0485	20.9
BKG03@6.0'	8/1/2023	6.0 Ft	**4.03**	**118**	0.239	*<0.30*	4.77	6.8	6.28	*<0.260*	0.0406	19.3
BKG04@6.0"	8/1/2023	0.5 Ft	**5.22**	**147**	0.29	*<0.30*	6.67	8.89	8.2	*<0.260*	0.104	21.7
BKG04@5.0'	8/1/2023	5.0 Ft	**4.66**	**160**	0.273	*<0.30*	5.61	7.99	6.96	*<0.260*	0.0417	21.6
BKG04@6.0'	8/1/2023	6.0 Ft	**3.83**	**119**	0.281	*<0.30*	6.26	7.64	6.97	*<0.260*	0.0485	20.4
BKG05@6.0"	8/1/2023	0.5 Ft	**5.22**	**163**	0.303	*<0.30*	6.3	8.49	7.45	*<0.260*	0.0402	20.8
BKG05@5.0'	8/1/2023	5.0 Ft	**3.33**	**136**	0.21	*<0.30*	4.97	6.16	5.89	*<0.260*	0.0299	17.9
BKG05@6.0'	8/1/2023	6.0 Ft	**3.91**	**98.4**	0.236	*<0.30*	5.17	7.13	6.38	*<0.260*	0.0365	19.5
1.25x Maximum Background Concentration			7.69	208	0.448	*NA*	*NA*	13.5	*NA*	*NA*	*NA*	*NA*

1. **Bold** faced values exceed the ECMC Table 915-1 limit(s), but are within 1.25x background concentrations.
2. **Bold** 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.

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
NA - Not analyzed
Material excavated and transported off site for disposal.

FIGURES



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1

SITE LOCATION MAP

NOBLE ENERGY INC - GOLDBERG N 14-13, 20D

SWSW Sec. 14, T5N, R67W, 6th PM
NWSW Sec. 14, T5N, R67W, 6th PM
Weld County, Colorado
40.395032°, -104.868171° / 40.397941°, -104.866134°

Project #	API #	Facility #
CO23-209 CO23-211	05-123-21133 05-123-30115	
Date	Remediation #	Filename
12/10/24	29206	23211+09T

FREMONT ENVIRONMENTAL

LEGEND

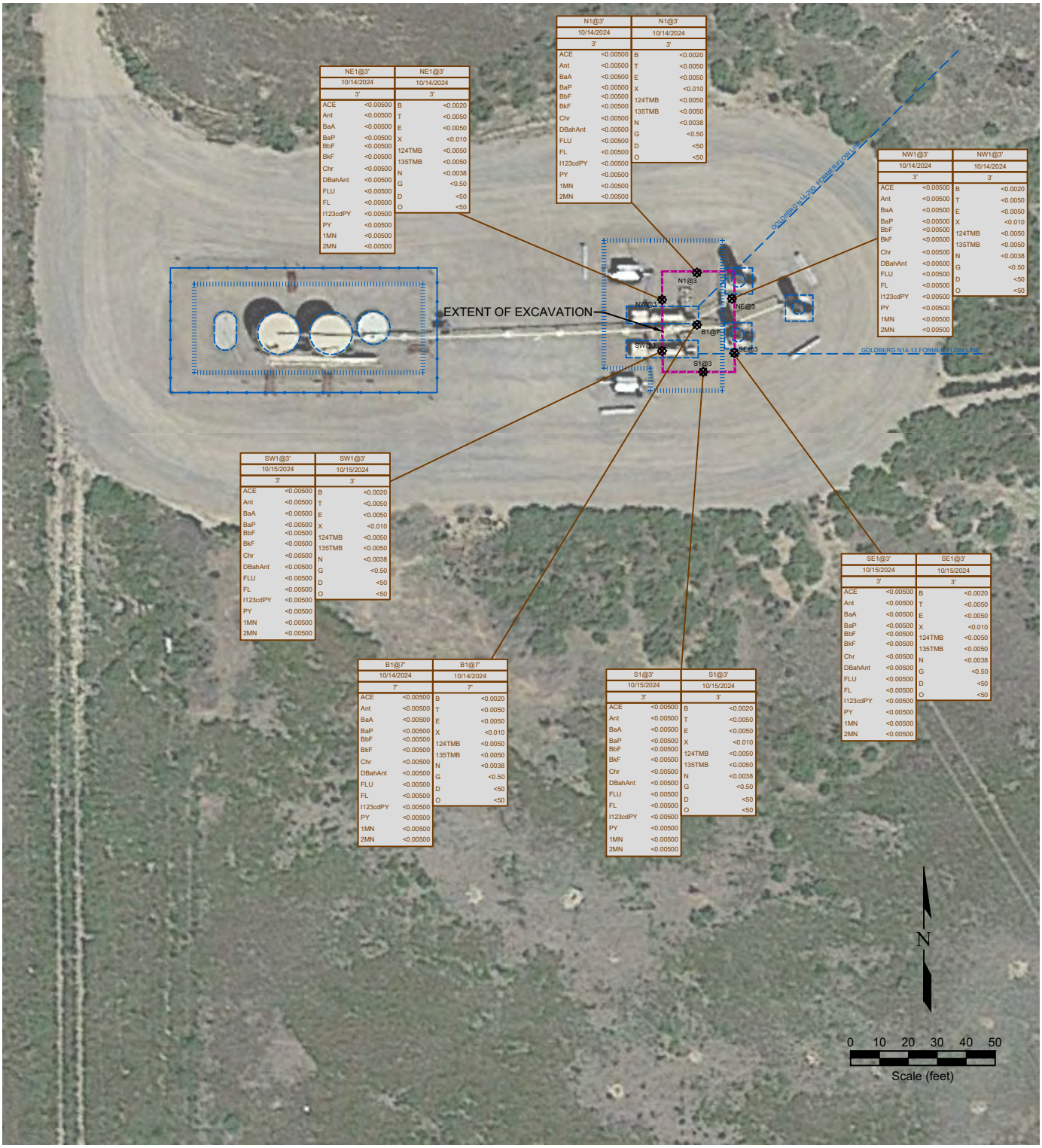
- WELLHEAD LOCATION
- PID READING LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- EXCAVATED AREA
- FORMER FLOW LINE
- CONTAINMENT BERM
- FENCE LINE
- EXTENT OF EXCAVATION

Figure 2
SITE MAP

NOBLE ENERGY INC - GOLDBERG N 14-13, 20D
SWSW Sec. 14, T5N, R67W, 6th PM
NWSW Sec. 14, T5N, R67W, 6th PM
Weld County, Colorado
40.395032°, -104.868171° / 40.397941°, -104.866134°

Project #	API #	Facility #
CO23-209 CO23-211	05-123-21133 05-123-30115	
Date	Remediation #	Filename
12/10/24	29206	23211+09QBKG

FREMONT ENVIRONMENTAL



NE1@3'	NE1@3'
10/14/2024	10/14/2024
3'	3'
ACE <0.00500	B <0.0020
Ant <0.00500	T <0.0050
BaA <0.00500	E <0.0050
BaP <0.00500	X <0.010
BbF <0.00500	124TMB <0.0050
BkF <0.00500	135TMB <0.0050
Chr <0.00500	N <0.0038
DBahAnt <0.00500	G <0.50
FLU <0.00500	D <50
FL <0.00500	O <50
I123cdPY <0.00500	
PY <0.00500	
1MN <0.00500	
2MN <0.00500	

N1@3'	N1@3'
10/14/2024	10/14/2024
3'	3'
ACE <0.00500	B <0.0020
Ant <0.00500	T <0.0050
BaA <0.00500	E <0.0050
BaP <0.00500	X <0.010
BbF <0.00500	124TMB <0.0050
BkF <0.00500	135TMB <0.0050
Chr <0.00500	N <0.0038
DBahAnt <0.00500	G <0.50
FLU <0.00500	D <50
FL <0.00500	O <50
I123cdPY <0.00500	
PY <0.00500	
1MN <0.00500	
2MN <0.00500	

NW1@3'	NW1@3'
10/14/2024	10/14/2024
3'	3'
ACE <0.00500	B <0.0020
Ant <0.00500	T <0.0050
BaA <0.00500	E <0.0050
BaP <0.00500	X <0.010
BbF <0.00500	124TMB <0.0050
BkF <0.00500	135TMB <0.0050
Chr <0.00500	N <0.0038
DBahAnt <0.00500	G <0.50
FLU <0.00500	D <50
FL <0.00500	O <50
I123cdPY <0.00500	
PY <0.00500	
1MN <0.00500	
2MN <0.00500	

SW1@3'	SW1@3'
10/15/2024	10/15/2024
3'	3'
ACE <0.00500	B <0.0020
Ant <0.00500	T <0.0050
BaA <0.00500	E <0.0050
BaP <0.00500	X <0.010
BbF <0.00500	124TMB <0.0050
BkF <0.00500	135TMB <0.0050
Chr <0.00500	N <0.0038
DBahAnt <0.00500	G <0.50
FLU <0.00500	D <50
FL <0.00500	O <50
I123cdPY <0.00500	
PY <0.00500	
1MN <0.00500	
2MN <0.00500	

SE1@3'	SE1@3'
10/15/2024	10/15/2024
3'	3'
ACE <0.00500	B <0.0020
Ant <0.00500	T <0.0050
BaA <0.00500	E <0.0050
BaP <0.00500	X <0.010
BbF <0.00500	124TMB <0.0050
BkF <0.00500	135TMB <0.0050
Chr <0.00500	N <0.0038
DBahAnt <0.00500	G <0.50
FLU <0.00500	D <50
FL <0.00500	O <50
I123cdPY <0.00500	
PY <0.00500	
1MN <0.00500	
2MN <0.00500	

B1@7'	B1@7'
10/14/2024	10/14/2024
7'	7'
ACE <0.00500	B <0.0020
Ant <0.00500	T <0.0050
BaA <0.00500	E <0.0050
BaP <0.00500	X <0.010
BbF <0.00500	124TMB <0.0050
BkF <0.00500	135TMB <0.0050
Chr <0.00500	N <0.0038
DBahAnt <0.00500	G <0.50
FLU <0.00500	D <50
FL <0.00500	O <50
I123cdPY <0.00500	
PY <0.00500	
1MN <0.00500	
2MN <0.00500	

S1@3'	S1@3'
10/15/2024	10/15/2024
3'	3'
ACE <0.00500	B <0.0020
Ant <0.00500	T <0.0050
BaA <0.00500	E <0.0050
BaP <0.00500	X <0.010
BbF <0.00500	124TMB <0.0050
BkF <0.00500	135TMB <0.0050
Chr <0.00500	N <0.0038
DBahAnt <0.00500	G <0.50
FLU <0.00500	D <50
FL <0.00500	O <50
I123cdPY <0.00500	
PY <0.00500	
1MN <0.00500	
2MN <0.00500	

LEGEND

- WELL HEAD LOCATION
- SOIL SAMPLE LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- EXTENT OF EXCAVATION
- FENCE LINE
- CONTAINMENT BERM
- FORMER FLOW LINE

SAMPLE ID	SAMPLE ID
DATE	DATE SAMPLED
DEPTH	DEPTH (ft)
ACE <0.00500	ACENAPHTHENE (mg/kg)
Ant <0.00500	ANTHRACENE (mg/kg)
BaA <0.00500	BENZO (A) ANTHRACENE (mg/kg)
BaP <0.00500	BENZO (A) PYRENE (mg/kg)
BbF <0.00500	BENZO (B) FLUORANTHENE (mg/kg)
BkF <0.00500	BENZO (K) FLUORANTHENE(mg/kg)
Chr <0.00500	CHRYSENE (mg/kg)
DBahAnt <0.00500	DIBENZ (A,H) ANTHRACENE (mg/kg)
FLU <0.00500	FLUORANTHENE (mg/kg)
FL <0.00500	FLUORENE (mg/kg)
I123cdPY <0.00500	INDENO (1,2,3-CD) PYRENE(mg/kg)
PY <0.00500	PYRENE (mg/kg)
1MN <0.00500	1-METHYLNAPHTHALENE (mg/kg)
2MN <0.00500	2-METHYLNAPHTHALENE (mg/kg)

SAMPLE	SAMPLE ID
DATE	DATE SAMPLED
DEPTH	DEPTH (ft)
B <0.0020	BENZENE (mg/kg)
T <0.0050	TOLUENE (mg/kg)
E <0.0050	ETHYLBENZENE (mg/kg)
X <0.010	TOTAL XYLENES (mg/kg)
124TMB <0.0050	1,2,4-TRIMETHYLBENZENE (mg/kg)
135TMB <0.0050	1,3,5-TRIMETHYLBENZENE (mg/kg)
N <0.0038	NAPHTHALENE (mg/kg)
G <0.50	TPH-GRO (mg/kg)
D <50	TPH-DRO (mg/kg)
O <50	TPH-ORO (mg/kg)

Figure 3

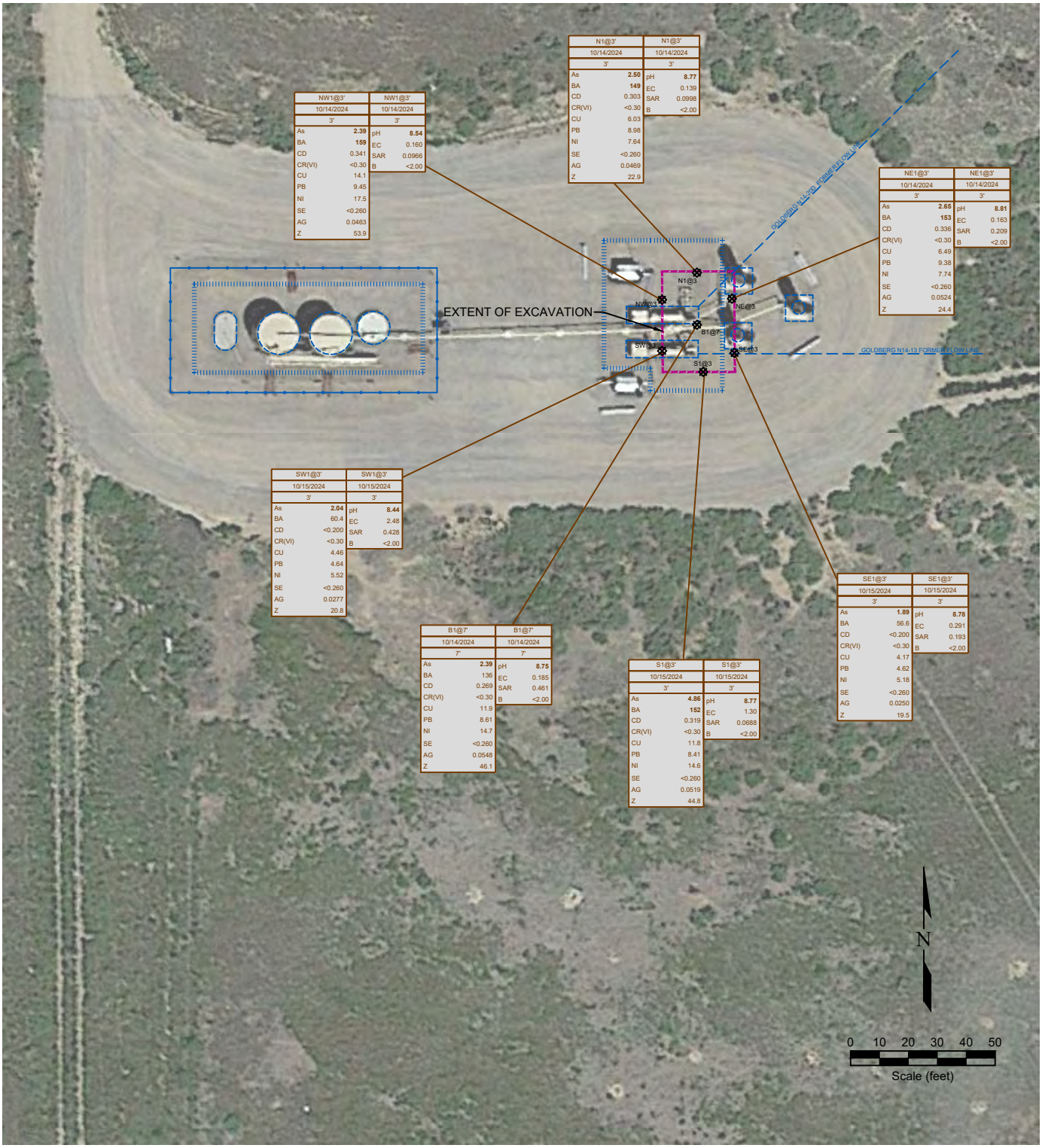
EXCAVATION ORGANIC SOIL CHEMISTRY MAP

NOBLE ENERGY INC - GOLDBERG N 14-13, 20D

SWSW Sec. 14, T5N, R67W, 6th PM
NWSW Sec. 14, T5N, R67W, 6th PM
Weld County, Colorado
40.395032°, -104.868171° / 40.397941°, -104.866134°

Project No.	API #	Facility #
CO23-209 CO23-211	05-123-21133 05-123-30115	
Date	**Remediation #**	**Filename**
12/10/24	29206	23211+09Q1

FREMONT ENVIRONMENTAL



LEGEND

- WELL HEAD LOCATION
- SOIL SAMPLE LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- EXTENT OF EXCAVATION
- FENCE LINE
- CONTAINMENT BERM
- FORMER FLOW LINE

SAMPLE	
	SAMPLE ID
DATE	DATE SAMPLED
DEPTH	DEPTH (ft)
As	ARSENIC (mg/kg)
BA	BARIUM (mg/kg)
CD	CADMIUM (mg/kg)
CR(VI)	CHROMIUM (mg/kg)
CU	COPPER (mg/kg)
PB	LEAD (mg/kg)
NI	NICKEL (mg/kg)
SE	SELENIUM (mg/kg)
AG	SILVER (mg/kg)
Z	ZINC (mg/kg)

SAMPLE	
	SAMPLE ID
DATE	DATE SAMPLED
DEPTH	DEPTH (ft)
pH	pH (pH units)
EC	EC (mmhos/cm)
SAR	SAR (units)
B	BORON (mg/L)

Figure 4

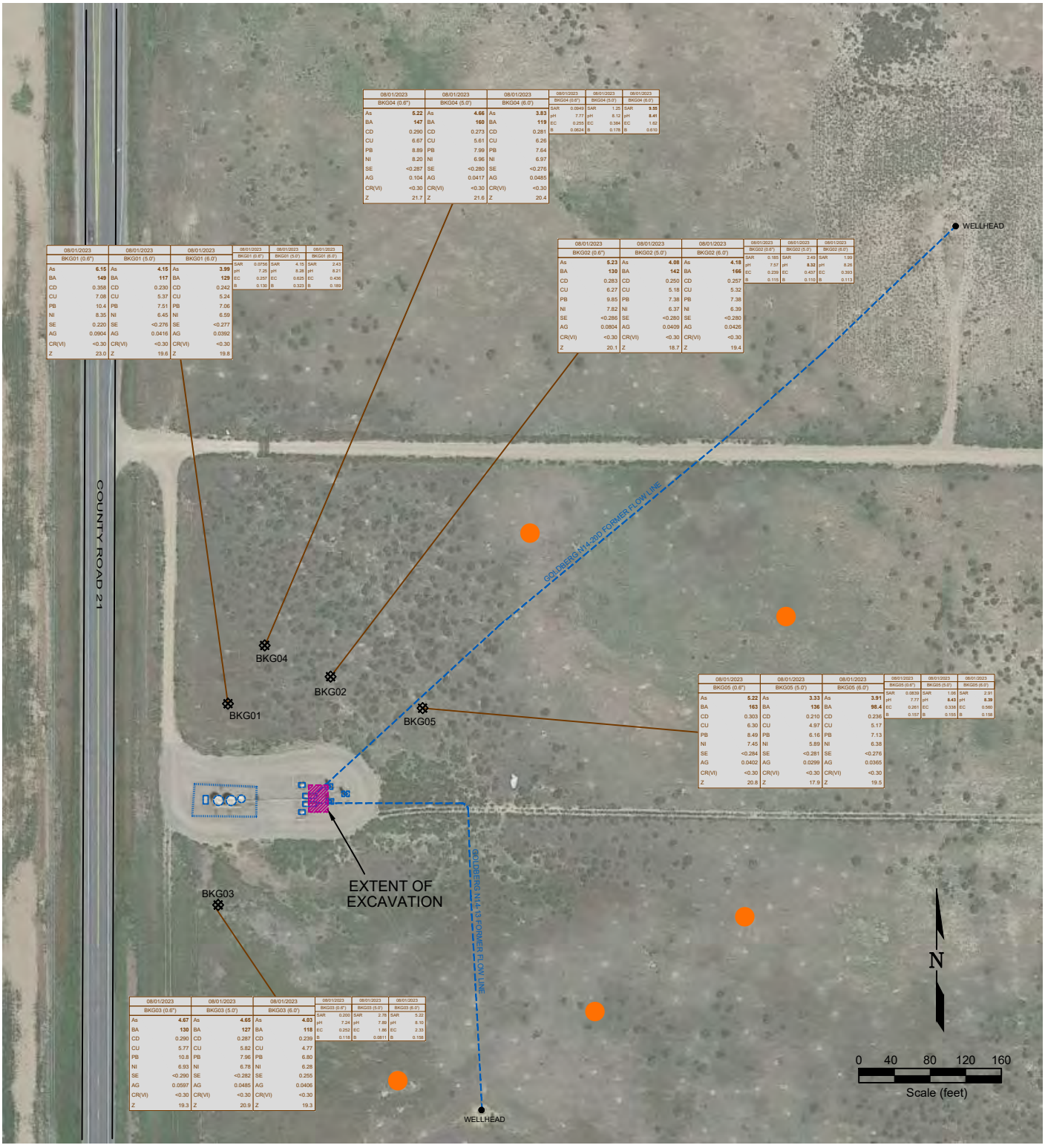
EXCAVATION METALS AND INORGANIC SOIL CHEMISTRY MAP

NOBLE ENERGY INC - GOLDBERG N 14-13, 20D

SWSW Sec. 14, T5N, R67W, 6th PM
NWSW Sec. 14, T5N, R67W, 6th PM
Weld County, Colorado
40.395032°, -104.868171° / 40.397941°, -104.866134°

Project No.	API #	Facility #
CO23-209 CO23-211	05-123-21133 05-123-30115	
Date	**Remediation #**	**Filename**
12/10/24	29206	23211+09Q1

FREMONT ENVIRONMENTAL



LEGEND

- WELLHEAD LOCATION
- SOIL SAMPLE LOCATION
- Proposed Background Soil Sample Locations
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- EXCAVATED AREA
- FORMER FLOW LINE
- CONTAINMENT BERM
- FENCE LINE
- EXTENT OF EXCAVATION

DATE SAMPLED
SAMPLE ID & DEPTH (ft)
ARSENIC (mg/kg)
BARIUM (mg/kg)
CADMIUM (mg/kg)
COPPER (mg/kg)
LEAD (mg/kg)
NICKEL (mg/kg)
SELENIUM (mg/kg)
SILVER (mg/kg)
HEXAVALENT CHROMIUM (mg/kg)
ZINC (mg/kg)

DATE SAMPLED
SAMPLE ID & DEPTH (ft)
SAR (units)
pH (pH units)
EC (mmhos/cm)
BORON (mg/L)

Figure 5

BACKGROUND SAMPLE SOIL CHEMISTRY MAP

NOBLE ENERGY INC - GOLDBERG N 14-13, 20D

SWSW Sec. 14, T5N, R67W, 6th PM
NWSW Sec. 14, T5N, R67W, 6th PM
Weld County, Colorado
40.395032°, -104.868171° / 40.397941°, -104.866134°

Project #	API #	Facility #
CO23-209 CO23-211	05-123-21133 05-123-30115	
Date	**Remediation #**	**Filename**
12/10/24	29206	23211+09QBKG

FREMONT ENVIRONMENTAL

APPENDIX A

PHOTO LOG

Photo Log

Description:

#1 Goldberg N14-20D,N14-13 Flowline Excavation - Facing East - No Staining or Odor

Photo Log

Description:

#2 Goldberg N14-20D,N14-13 Flowline Excavation - Facing South West - No Staining or Odor

Photo Log

Description:

#3 Goldberg N14-20D,N14-13 Flowline Excavation - Facing South East - No Staining or Odor

Photo Log

Description:

#4 Goldberg N14-20D,N14-13 Flowline Excavation - Facing North East - No Staining or Odor

APPENDIX B

COLORADO DIVISION OF WATER RESOURCES WELL PERMIT DATA

WJR-26-77

WIDE + PIE AD

WRONG NO?

THIS FORM MUST BE SUBMITTED WITHIN 60 DAYS OF COMPLETION OF THE WORK DESCRIBED HEREON. TYPE OR PRINT IN BLACK INK.

COLORADO DIVISION OF WATER RESOURCES

1313 Sherman Street - Room 818
Denver, Colorado 80203

RECEIVED
JUN 15 1988
[illegible] ENGINEER
COLO.

WELL COMPLETION AND PUMP INSTALLATION REPORT

PERMIT NUMBER ~~150955~~ 150855

WELL OWNER ~~Ronald L. Phillip~~
P. O. Box 1554
ADDRESS
Windsor, Colorado 80550

DATE COMPLETED June 8, 19 88

NE ¼ of the NW ¼ of Sec. 10,
T. 5 N, R. 67 W, 6 P.M.

HOLE DIAMETER

7 7/8" in. from 0 to 1170 ft.

____ in. from ____ to ____ ft.

____ in. from ____ to ____ ft.

DRILLING METHOD ____

CASING RECORD: Plain Casing

Size 6 & kind Steel from 0 to 750 ft.

Size ____ & kind ____ from ____ to ____ ft.

Size ____ & kind ____ from ____ to ____ ft.

Perforated Casing

Size 6 & kind Steel from 750 to 1170 ft.

Size ____ & kind ____ from ____ to ____ ft.

Size ____ & kind ____ from ____ to ____ ft.

GROUTING RECORD

Material Cement

Intervals From 10 ft. to 263 ft

Placement Method ~~Mixed and poured~~

GRAVEL PACK: Size 0

Interval ____

TEST DATA

Date Tested June 8, 1988

Static Water Level Prior to Test 235 ft ft.

Type of Test Pump Bailer

Length of Test 6 hours

Sustained Yield (Metered) 10 GPM

Final Pumping Water Level ~~800 ft.~~

WELL LOG

From	To	Type and Color of Material	Water Loc.
0	5	Clay	
5	20	Sand	
20	22	Shale blossom	
22	300	Red rock & shale	
300	318	Hard shale rock	
318	335	Soft sticky shale	
335	340	Shale rock	
340	500	Medium hard shale with thin rock & brittle shale	
500	505	Shale rock	
505	680	Shale, sticky shale, & brittle shale layered	
680	682	Shale rock	
682	1040	Soft shale & thin sand streaks	
1040	1042	Shale rock	
1042	1170	Soft shale & sands mixed	XX

TOTAL DEPTH 1170

Use additional pages necessary to complete log.

PUMP INSTALLATION REPORT

Pump Make Red Jacket

Type Subsmerible

Powered by Electric HP 3

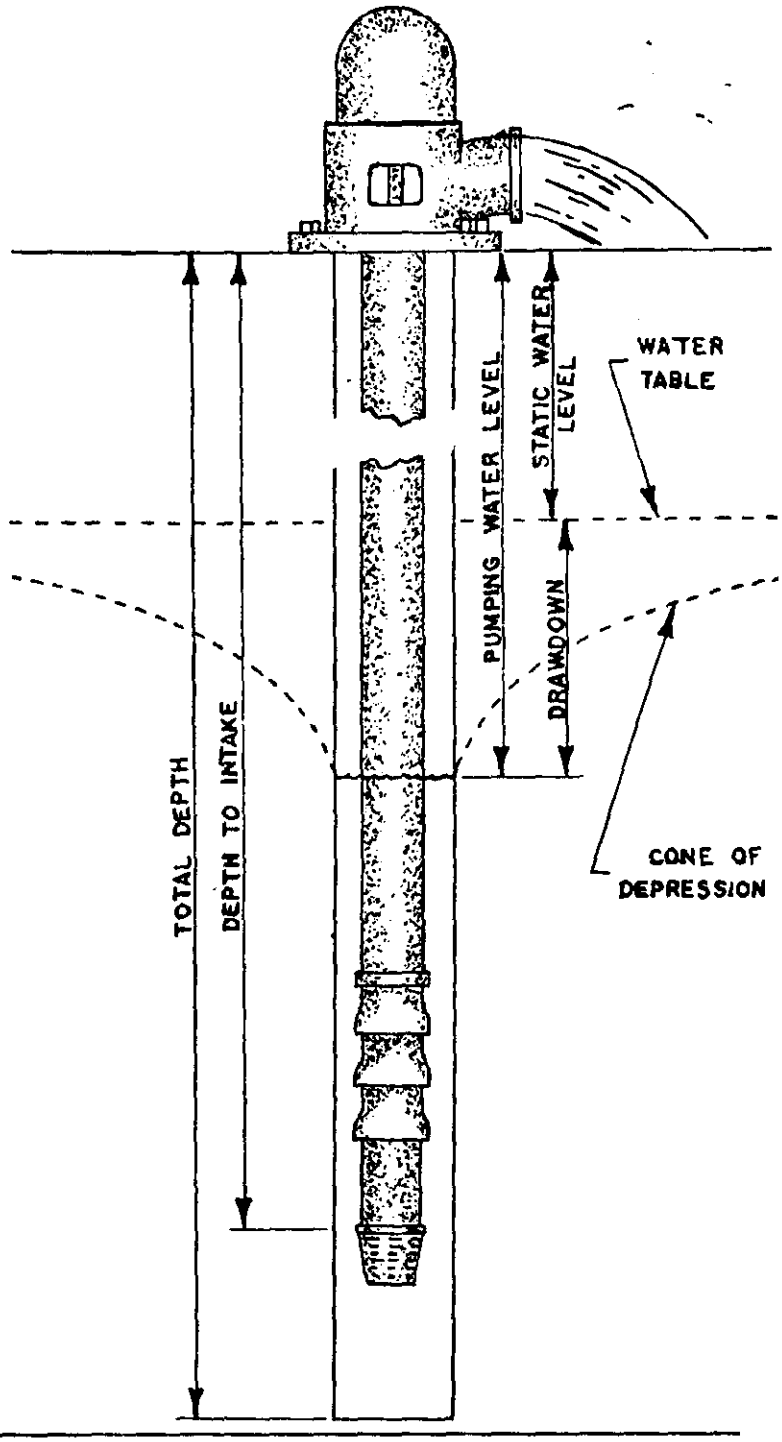
Pump Serial No. 300CN1

Motor Serial No. 851 19 2 5

Date Installed June 9, 1988

Pump Intake Depth 800 ft

Remarks



WELL TEST DATA WITH PERMANENT PUMP

Date Tested June 9, 1988

Static Water Level Prior to Test 235 ft

Length of Test 2 Hours

Sustained yield (Metered) 10 GPM

Pumping Water Level 800 ft

Remarks

CONTRACTORS STATEMENT

The undersigned, being duly sworn upon oath, deposes and says that he is the contractor of the well or pump installation described hereon; that he has read the statement made hereon; knows the content thereof, and that the same is true of his own knowledge.

Signature Dennis Stewart License No. 66

State of Colorado, County of Logan SS

Subscribed and sworn to before me this 14 day of June, 19 88.

My Commission expires: May 2, 19 89.

Notary Public Elsie E. Stewart

FORM TO BE MADE OUT IN QUADRUPLICATE: WHITE FORM must be an original copy on both sides and signed. WHITE AND GREEN copies must be filed with the State Engineer. PINK COPY is for the Owner and YELLOW COPY is for the Driller.

VRJ-5-74

COLORADO DIVISION OF WATER RESOURCES
101 Columbine Bldg., 1845 Sherman St., Denver, Colorado 80203

RECEIVED
MAR 2 4 1988
WATER RESOURCES
STATE ENGINEER
COLO.

PERMIT APPLICATION FORM

Application must be complete where applicable. Type or print in BLACK INK. No overstrikes or erasures unless initialed.

RECEIVED
FEB 17 1988
WATER RESOURCES
STATE ENGINEER
COLO.

FOR:
(X) A PERMIT TO USE GROUND WATER
(XX) A PERMIT TO CONSTRUCT A WELL
(XX) A PERMIT TO INSTALL A PUMP
(XX) REPLACEMENT FOR NO. 96391

02-17-88 2:59 P
032472 60.00
MWX06B F0011
RE 60.00
CHEQUE 60.00
CAS 0.00
ITM 1

( ) OTHER _____

(1) APPLICANT - mailing address

NAME Ronald L. Phillip
STREET PO Box 1554
CITY Windsor, Colorado 80550 (State) (Zip)
TELEPHONE NO. 686 2180

(2) LOCATION OF PROPOSED WELL

County Weld
NE ¼ of the NW ¼, Section 10
Twp. 5 N., Rng. 67 W., 6 P.M.

(3) WATER USE AND WELL DATA

Proposed maximum pumping rate (gpm) 15
Average annual amount of ground water to be appropriated (acre-feet): 2
Number of acres to be irrigated: 1
Proposed total depth (feet): 800
Aquifer ground water is to be obtained from:
Foxhill
Owner's well designation _____

GROUND WATER TO BE USED FOR:

( ) HOUSEHOLD USE ONLY - no irrigation (0)
(X) DOMESTIC (1)
(X) LIVESTOCK (2)
( ) COMMERCIAL (4)
( ) INDUSTRIAL (5)
( ) IRRIGATION (6)
( ) MUNICIPAL (8)
(X) OTHER (9) Irrigate one (1) ACRE

(4) DRILLER

Name Stewart Drilling co
Street 18897 Hwy 6
City Sterling Colorado 80751 (State) (Zip)
Telephone No. 522 1454 Lic. No. 66

FOR OFFICE USE ONLY - DO NOT WRITE IN THIS COLUMN

Receipt No. 84811 CL-1 / 8A4811
Basin _____ Dist. _____

CONDITIONS OF APPROVAL

This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of the permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.

1) APPROVED PURSUANT TO CRS 37-92-602(3)(b)(II) AS THE ONLY WELL ON A TRACT OF LAND OF 40 ACRES DESCRIBED AS THE NE 1/4 OF THE NW 1/4 OF SECTION 10, T5N, R67W OF THE 6TH P.M., WELD COUNTY.

2) THE USE OF GROUND WATER FROM THIS WELL IS LIMITED TO FIRE PROTECTION, ORDINARY HOUSEHOLD PURPOSES INSIDE A SINGLE FAMILY DWELLING, THE IRRIGATION OF NOT MORE THAN ONE ACRE OF HOME GARDENS AND LAWNS AND THE WATERING OF DOMESTIC ANIMALS.

3) THE RETURN FLOW FROM THE USE OF THIS WELL MUST BE THRU AN INDIVIDUAL WASTE WATER DISPOSAL SYSTEM OF THE NON-EVAPORATIVE TYPE WHERE THE WATER IS RETURNED TO THE SAME STREAM SYSTEM IN WHICH THE WELL IS LOCATED.

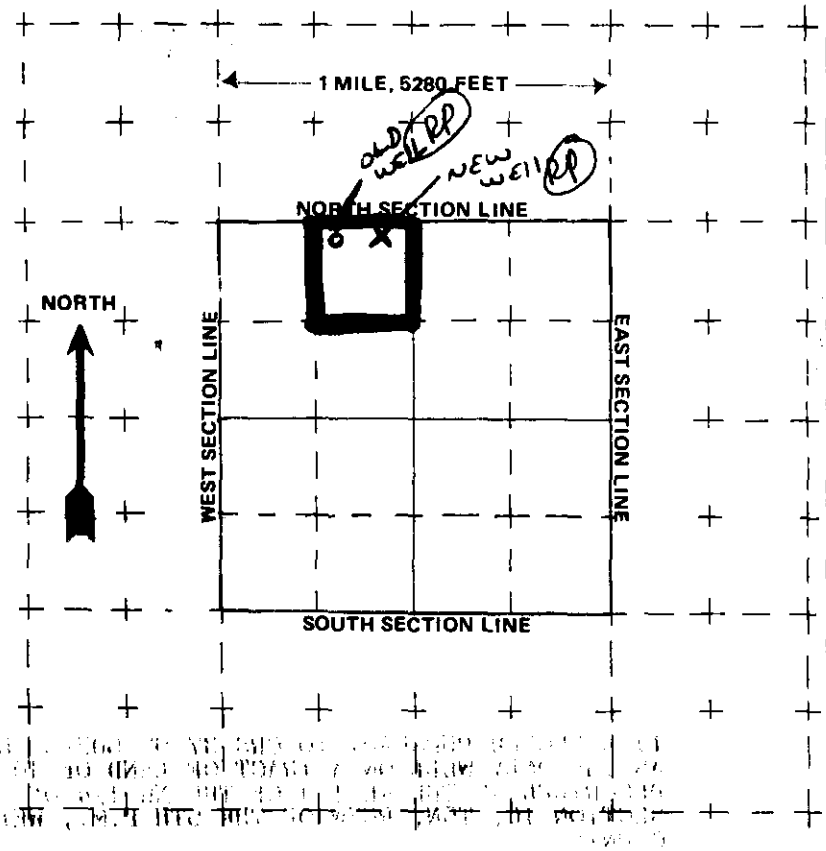
4) APPROVED FOR A CHANGE IN SOURCE AND RELOCATION OF WELL PERMIT NO. 96391. ISSUANCE OF THIS PERMIT HEREBY CANCELS WELL PERMIT NO. 96391. GRG 4/4/88

APPLICATION APPROVED

PERMIT NUMBER 150855
DATE ISSUED APR 05 1988
EXPIRATION DATE APR 05 1990

Jim A. Danielson
(STATE ENGINEER)
BY _____
I.D. 1-03 COUNTY 62

(5) THE LOCATION OF THE PROPOSED WELL and the area on which the water will be used must be indicated on the diagram below. Use the CENTER SECTION (1 section, 640 acres) for the well location.



The scale of the diagram is 2 inches = 1 mile
Each small square represents 40 acres.

WATER EQUIVALENTS TABLE (Rounded Figures)
An acre-foot covers 1 acre of land 1 foot deep
1 cubic foot per second (cfs) . . . 449 gallons per minute (gpm)
A family of 5 will require approximately 1 acre-foot of water per year.
1 acre-foot . . . 43,560 cubic feet . . . 325,900 gallons.
1,000 gpm pumped continuously for one day produces 4.42 acre-feet.

(6) THE WELL MUST BE LOCATED BELOW by distances from section lines.

1320 ft. from NORTH (north or south) sec. line
2940 (RP) 300 ft. from EAST (east or west) sec. line

LOT (N) BLOCK — FILING # —
SUBDIVISION NE¼ NW¼ SEC 10 5N 67W 6PM

(7) TRACT ON WHICH WELL WILL BE LOCATED Owner: Ronald L. Phillip
No. of acres (RP) 40 . Will this be the only well on this tract? yes

(8) PROPOSED CASING PROGRAM

Plain Casing
5 in. from 0 ft. to 700 ft.
_____ in. from _____ ft. to _____ ft.

Perforated casing
5 in. from 700 ft. to 800 ft.
_____ in. from _____ ft. to _____ ft.

(9) FOR REPLACEMENT WELLS give distance and direction from old well and plans for plugging it:

Will offset the old well.
The old well will be plugged according to the rules.

(10) LAND ON WHICH GROUND WATER WILL BE USED:

Owner(s): Ronald L. Phillip No. of acres: 40

Legal description: NE¼, NW¼m Sec 10m 5N, 67W, 6PM, Weld County, Colo.

(11) DETAILED DESCRIPTION of the use of ground water: Household use and domestic wells must indicate type of disposal system to be used.

Domestic and livestock use. The waste water from the house will go through a septic tank and leech line.

(12) OTHER WATER RIGHTS used on this land, including wells.

Type or right	Used for (purpose)	Description of land on which used
None		

(13) THE APPLICANT(S) STATE(S) THAT THE INFORMATION SET FORTH HEREON IS TRUE TO THE BEST OF HIS KNOWLEDGE.

Ronald L Phillip
SIGNATURE OF APPLICANT(S)

Use additional sheets of paper if more space is required.

ROY ROMER
Governor

JERIS A. DANIELSON
State Engineer

OFFICE OF THE STATE ENGINEER
DIVISION OF WATER RESOURCES

1313 Sherman Street-Room 818
Denver, Colorado 80203
(303) 866-3581

TO: RONALD L. PHILLIPS
RECEIPT NO.: 84811

FROM: GLENN GRAHAM
DATE: 18 FEBRUARY 1988

Your application for a permit to relocate and deepen a well is being returned for the reasons indicated below. The corrections and/or additional information we are requesting are required before evaluation of the subject application can proceed any further.
All corrections and additions must be typed or printed in **BLACK INK**.
Please initial and date any changes or additions you make to the form.
Return the application form with all attached documentation to this office.

****

The information that you have provided that pertains to the location of the proposed replacement well is not consistent throughout the application and does not agree with the information contained on the original Late REgistration approved by this office on 31 January 1978.

In Block No. 2 you have indicated that the proposed replacement would be located in the NE 1/4 of the NW 1/4 of the section, but the footage distances you provided in Block No. 6 would place the well in the NE 1/4 of the NE 1/4 of the section. The footage distances on the original Late Registration locate the well 150 feet from the North Section Line and 1590 feet from the West Section Line. Those distance would locate the well in the NE 1/4 of the NW 1/4 of the section.

Please correct the application as necessary in order to accurately and consistently describe the location of the proposed replacement well.

Make sure to initial and date all corrections and/or additions you may make to the application form.

Feel free to contact this office if you have any questions.

Thanks Glenn

I hope this is

Right now

Ron Phillips

RECEIVED

JAN 09 '78

WATER RESOURCES STATE ENGINEER COLO.

TYPE OR PRINT IN BLACK INK. COPY OF ACCEPTED STATEMENT MAILED ON REQUEST.

COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St.

Denver, Colorado 80203

STATE OF COLORADO } SS. AFFIDAVIT

COUNTY OF Weld

23-D

10cok

_____ STATEMENT OF BENEFICIAL USE OF GROUND WATER

_____ AMENDMENT OF EXISTING RECORD

__x__ LATE REGISTRATION 96391

PERMIT NUMBER Unrgeistered LOCATION OF WELL

THE AFFIANT(S) Ronald L. Phillips County Weld

whose mailing address is Rt. 1, Box 40-A NE ¼ of the NW ¼, Section 10

City Windsor, Colorado 80550 (STATE) (ZIP) Twp. 5 N (N OR S), Rng 67 W (E OR W), 6 P M

being duly sworn upon oath, deposes and says that he (they) is (are) the owner(s) of the well described hereon, the well is located as described above, at distonces of 150 feet from the North (NORTH OR SOUTH) section line and 1590 feet from the West (EAST OR WEST) section line; water from this well was first applied to a beneficial use for the purpose(s) described herein on the ___ day of Summer, 1949; the maximum sustained pumping rate of the well is 35 gallons per minute, the pumping rate claimed hereby is 35 gallons per minute; the total depth of the well is 30 feet; the average annual amount of water to be diverted is 2 acre-feet; for which claim is hereby made for Domestic _____ purpose(s); the legal description of the land on which the water from this well is used is

NE¼ of the NW¼ of section 10, Twp 5N, Rng 67W, 6 PM of which Less than one _____ acres are irrigated and which is illustrated on the map on the reverse side of this form; that this well was completed in compliance with the permit approved therefor; this statement of beneficial use of ground water is filed in compliance with law; he (they) has (have) read the statements made hereon; knows the content thereof; and that the same are true of his (their) knowledge.

(COMPLETE REVERSE SIDE OF THIS FORM)

Signature(s) X Ronald L Phillips

Subscribed and sworn to before me on this 5th day of Jan, 1978

My Commission expires: My Commission expires June 16, 1981 (SEAL)

Mary Wadsworth NOTARY PUBLIC

ACCEPTED FOR FILING BY THE STATE ENGINEER OF COLORADO PURSUANT TO THE FOLLOWING CONDITIONS:

CANCELLED

Bruce E. DeBrine DEPUTY STATE ENGINEER

JAN 31 1978 DATE

BY Hawbold

FOR OFFICE USE ONLY

Court Case No. _____

Prior _____ Mo. _____ Day _____ Yr. _____

Div. 1 Cty. 62

Sec. _____ ¼ ¼ ¼

Well Use 1

Dist. 03 Basin _____ Mon Dis _____

Well drilled by _____ Lic. No. _____

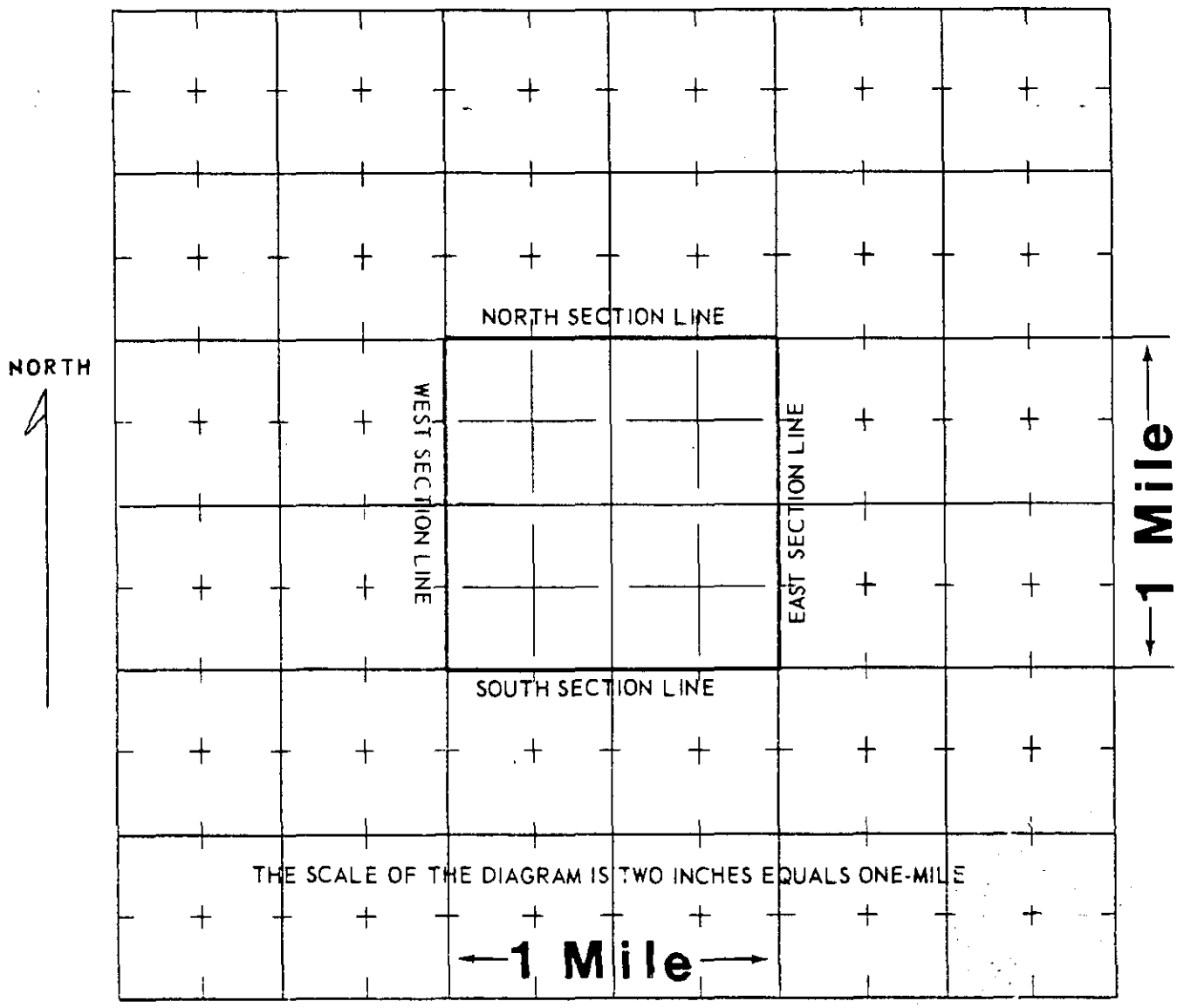
Permanent Pump installed by _____ Lic. No. _____

Meter Serial No. _____ ☐ Flow Meter Date Installed _____

Owner of land on which water is being used _____

THE LOCATION OF THE WELL MUST BE SHOWN AND FOR LARGE CAPACITY IRRIGATION WELLS THE AREA ON WHICH THE WATER IS USED MUST BE SHADED OR CROSS-HATCHED ON THE DIAGRAM BELOW.

This diagram represents nine (9) sections. Use the **CENTER SQUARE** (one section) to indicate the location of the well, if possible.



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1 acre-foot . . . 43,560 cubic feet . . . 325,900 gallons.
1,000 gpm pumped continuously for one day produces 4.42 acre-feet.
100 gpm pumped continuously for one year produces 160 acre-feet.

**(WHITE AND PINK COPY TO BE FILED WITH THE STATE ENGINEER
PINK COPY WILL BE RETURNED TO OWNER)**