

TABLE 5
EXCAVATION AND SOIL MIXING ANALYTICAL DATA
NOBLE ENERGY, INC. - BIERIG 1-26

Soil Sample ID	Date	PID Reading (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Naphthalene (mg/kg)	Sidewall/Base Sample
COGCC Soil Standard (mg/kg)			0.17	85	100	175	500		23	
SS18@6'	10/31/18	113.0	0.054	<0.0050	0.028	0.14	<50	<50	<0.010	Sidewall
SS18@8.5'	10/31/18	514.6	0.38	<0.0050	0.67	18	220	130	0.17	Sidewall
SS19@6'	10/31/18	355.4	0.70	<0.0050	3.3	34	1,300	290	0.34	Sidewall
SS19@8.5'	10/31/18	400.0	0.52	<0.0050	2.8	29	410	270	0.22	Sidewall
SS20@6'	10/31/18	569.5	0.052	<0.0050	0.13	8.6	66	240	0.027	Sidewall
SS20@8.5'	10/31/18	464.5	0.089	<0.0050	0.34	15	76	130	0.077	Sidewall
SS21@6'	10/31/18	548.4	0.075	<0.0050	0.29	13	80	240	0.10	Sidewall
SS21@8.5'	10/31/18	385.8	0.18	<0.0050	0.095	1.4	<50	<50	0.025	Sidewall
SS22@6'	10/31/18	633.3	0.068	<0.0050	0.41	14	80	140	0.086	Sidewall
SS22@8.5'	10/31/18	339.9	0.31	<0.0050	0.79	55	850	220	0.14	Sidewall
SS23@9'	10/31/18	578.1	0.13	<0.0050	0.13	1.4	<50	52	0.039	Base
SS24@9'	10/31/18	398.2	0.23	<0.0050	0.69	15	83	200	0.13	Base
SS25@9'	10/31/18	380.5	0.064	<0.0050	0.059	1.0	<50	<50	0.024	Base
SS26@9'	10/31/18	443.4	0.47	<0.0050	1.2	19	150	240	0.18	Base
SS27@9'	10/31/18	284.4	0.063	<0.0050	0.0098	0.14	<50	<50	0.020	Base
SS28@6'	11/01/18	369.5	0.26	<0.0050	0.098	3.1	<50	62	0.012	Sidewall
SS28@8.5'	11/01/18	709.2	0.14	<0.0050	0.29	2.0	<50	120	0.075	Sidewall
SS29@6'	11/01/18	575.4	0.051	<0.0050	0.15	5.7	83	260	0.042	Sidewall
SS29@8.5'	11/01/18	631.5	0.12	0.0078	0.58	15	420	260	0.15	Sidewall
SS30@6'	11/01/18	585.5	<0.0020	<0.0050	<0.0050	0.012	<50	<50	<0.010	Sidewall
SS30@8.5'	11/01/18	253.3	0.57	0.0060	0.72	5.1	230	160	0.13	Sidewall
SS31@6'	11/01/18	522.1	<0.0020	<0.0050	0.0076	0.32	<50	150	0.034	Sidewall
SS31@8.5'	11/01/18	583.1	0.32	0.0050	0.66	41	800	190	0.11	Sidewall
SS32@6'	11/01/18	675.3	0.0073	<0.0050	0.13	7.3	360	300	0.12	Sidewall
SS32@8.5'	11/01/18	569.5	0.020	<0.0050	0.076	1.3	53	170	0.073	Sidewall
SS33@10'	11/01/18	360.5	0.13	<0.0050	0.24	3.3	84	160	0.046	Base
SS34@10'	11/01/18	357.3	0.022	<0.0050	0.022	0.30	<50	<50	0.014	Base
SS35@10'	11/01/18	385.5	0.043	<0.0050	0.0085	0.13	<50	200	<0.010	Base
SS36@10'	11/01/18	349.1	0.21	<0.0050	0.34	7.9	83	<50	0.089	Base
SS37@10'	11/01/18	374.4	0.058	<0.0050	0.068	1.0	<50	90	0.047	Base
SS38@10'	11/02/18	290.2	0.026	<0.0050	0.011	0.16	<50	<50	<0.010	Base
SS39@10'	11/02/18	412.5	0.056	<0.0050	0.068	0.70	<50	<50	0.023	Base
SS40@10'	11/02/18	335.6	0.047	<0.0050	0.0066	0.085	<50	<50	<0.010	Base
SS41@10'	11/02/18	325.6	0.10	0.012	0.089	2.7	<50	<50	0.016	Base
SS42@10'	11/02/18	382.7	0.19	0.30	0.31	7.7	50	310	0.097	Base
SS43@10'	11/02/18	417.7	0.041	<0.0050	0.065	1.2	<50	110	0.043	Base
SS44@10'	11/05/18	527.1	0.086	<0.0050	0.011	0.16	<50	<50	0.011	Base
SS45@6'	11/05/18	724.5	0.80	<0.0050	2.3	58	440	780	0.51	Sidewall
SS45@8.5'	11/05/18	186.6	0.37	<0.0050	0.60	18	78	140	0.13	Sidewall
SS46@6'	11/05/18	761.6	0.13	<0.0050	0.80	79	160	160	0.24	Sidewall
SS46@8.5'	11/05/18	681.5	0.16	<0.0050	0.68	14	90	190	0.13	Sidewall
SS47@6'	11/05/18	502.5	0.042	<0.0050	0.036	0.50	<50	110	0.019	Sidewall
SS47@8.5'	11/05/18	389.3	0.12	<0.0050	0.030	0.38	<50	<50	<0.010	Sidewall
SS48@6'	11/05/18	656.7	0.0061	<0.0050	0.15	9.3	<50	200	0.060	Sidewall
SS48@8.5'	11/05/18	404.3	0.069	<0.0050	0.012	0.16	<50	<50	0.015	Sidewall
SS49@6'	11/05/18	614.8	0.072	<0.0050	0.50	0.20	80	360	0.11	Sidewall
SS49@8.5'	11/05/18	207.9	0.13	<0.0050	0.013	0.19	<50	<50	0.016	Sidewall
SS50@6'	11/13/18	28.0	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Sidewall
SS50@8.5'	11/13/18	574.1	0.018	<0.0050	0.036	0.51	<50	<50	<0.010	Sidewall
SS51@10'	11/13/18	69.5	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Base
SS52@6'	11/14/18	881.5	<0.0020	<0.0050	0.0085	0.15	<50	<50	<0.010	Sidewall
SS52@8.5'	11/14/18	1,261	0.0032	<0.0050	0.052	0.72	<50	<50	0.014	Sidewall
SS53@6'	11/14/18	1,373	0.037	<0.0050	1.1	13	86	66	0.15	Sidewall
SS53@8.5'	11/14/18	964.8	<0.0020	<0.0050	<0.0050	0.077	<50	200	<0.010	Sidewall

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Soil Sample ID	Date	PID Reading (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Naphthalene (mg/kg)	Sidewall/Base Sample
COGCC Soil Standard (mg/kg)			0.17	85	100	175	500		23	
SS54@6'	11/15/18	43.8	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Sidewall
SS54@8.5'	11/15/18	4,035	<0.0020	<0.0050	0.17	4.9	53	140	0.060	Sidewall
SS55@6'	11/15/18	36.8	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Sidewall
SS55@8.5'	11/15/18	3,613	<0.0020	<0.0050	0.0075	0.087	<50	67	<0.010	Sidewall
SS56@6'	11/15/18	15.1	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Sidewall
SS56@8.5'	11/15/18	4,195	<0.0020	<0.0050	0.029	0.38	<50	<50	0.011	Sidewall
SS57@10'	11/15/18	20.6	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Base
SS58@12'	11/15/18	6.8	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Base
SS59@10'	11/15/18	19.3	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Base
SS60@10'	11/15/18	7.2	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Base
SS61@10'	11/15/18	69.7	0.0052	<0.0050	<0.0050	0.012	<50	<50	<0.010	Base
SS62@6'	11/26/18	822.6	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Sidewall
SS62@8.5'	11/26/18	2,474	0.0071	<0.0050	0.10	1.2	<50	57	0.026	Sidewall
SS63@10'	11/26/18	4.1	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Base
SS64@10'	11/26/18	273.2	0.31	<0.0050	0.052	0.48	<50	<50	<0.010	Base
SS65@10'	11/26/18	956.5	0.060	<0.0050	0.026	0.24	<50	<50	<0.010	Base
SS66@12'	11/27/18	129.1	0.030	<0.0050	<0.0050	0.035	<50	<50	0.014	Base
SS67@6'	11/28/18	3,813	0.040	0.017	0.54	10	110	180	0.28	Sidewall
SS67@8.5'	11/28/18	2,849	0.028	<0.0050	0.27	8.7	<50	79	0.085	Sidewall
SS68@10'	11/28/18	391.4	0.13	<0.0050	0.022	0.29	<50	<50	0.011	Base
SS69@10'	11/28/18	435.1	0.011	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Base
SS70@6'	11/28/18	806.7	<0.0020	<0.0050	0.012	0.10	<50	54	<0.010	Base
SS70@8.5' -1	11/28/18	4,090	0.0051	<0.0050	0.0077	0.099	<50	<50	<0.010	Base
SS70@8.5' - 2	11/28/18	4,090	<0.050	<0.050	<0.050	<0.050	<5.00	<50	<0.200	Base
SS70@10'	11/28/18	3,119	0.0070	<0.0050	0.0092	0.12	<50	<50	<0.010	Base
SS71@6'	12/03/18	504.8	0.010	<0.0050	0.046	0.75	440	190	<0.010	Sidewall
SS71@8.5'	12/03/18	1,919	0.022	<0.0050	0.020	0.21	<50	<50	0.014	Sidewall
SS72@6'	12/03/18	5.9	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Sidewall
SS72@8.5'	12/03/18	3,079	0.053	<0.0050	0.32	4.4	<50	100	0.11	Sidewall
SS73@6'	12/04/18	471.6	<0.0020	<0.0050	0.017	0.29	51	78	<0.010	Sidewall
SS73@8.5'	12/04/18	267.5	0.012	<0.0050	<0.0050	0.019	<50	<50	<0.010	Sidewall
SS74@10'	12/04/18	193.3	0.0220	<0.0050	<0.0050	0.028	<50	<50	<0.010	Base
SS75@6'	12/11/18	0.1	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Sidewall
SS75@8.5'	12/11/18	114.6	<0.0020	<0.0050	<0.0050	0.025	<50	<50	<0.010	Sidewall
SS76@6'	12/11/18	3.5	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Sidewall
SS76@8.5'	12/11/18	881.3	1.9	0.011	5.8	81	1,800	160	1.2	Sidewall
SS77@12.5'	12/11/18	140.5	0.011	<0.0050	<0.0050	0.024	<50	<50	<0.010	Base
SS78@12.5'	12/11/18	10.8	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Base
SS79@12.5'	12/11/18	45.7	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Base
SS80@12.5'	12/11/18	13.7	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Base
SS81@6'	12/11/18	11	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Sidewall
SS81@8.5'	12/11/18	170.4	0.0032	<0.0050	0.069	0.97	<50	<50	0.014	Sidewall
SS82@6'	12/11/18	7.7	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Sidewall
SS82@8.5'	12/11/18	1,410	<0.0020	<0.0050	0.56	13	3.5	<50	0.088	Sidewall
SS83@6'	12/12/18	618.2	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Sidewall
SS83@8.5'	12/12/18	5.5	5.6	0.63	17	220	<50	1,200	2.7	Sidewall
SS84@6'	12/13/18	0.6	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Sidewall
SS84@8.5'	12/13/18	873.0	0.11	<0.0050	0.39	21	820	110	0.10	Sidewall
SS85@6'	12/13/18	9.2	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Sidewall
SS85@8.5'	12/13/18	203.5	<0.0020	<0.0050	0.033	0.057	410	150	<0.010	Sidewall
SS86@6'	12/13/18	6.6	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Sidewall
SS86@8.5'	12/13/18	1,258	0.097	<0.0050	0.17	0.98	<50	77	0.028	Sidewall
SS87@12.5'	12/13/18	54.0	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Base

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Soil Sample ID	Date	PID Reading (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Naphthalene (mg/kg)	Sidewall/Base Sample
COGCC Soil Standard (mg/kg)			0.17	85	100	175	500		23	
SS88@6'	12/14/18	6.2	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Sidewall
SS88@8.5'	12/14/18	2,675	<0.0020	<0.0050	0.090	0.63	58	<50	<0.010	Sidewall
SS89@6'	12/14/18	7.3	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Sidewall
SS89@8.5'	12/14/18	3,374	2.3	<0.0050	8.9	120	1,500	87	1.5	Sidewall
SS90@6'	12/17/18	22.8	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Sidewall
SS90@8.5'	12/17/18	1,084	<0.0020	<0.0050	1.6	22	800	75	0.29	Sidewall
SS91@12'	12/17/18	21.6	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Base
SS92@6'	12/17/18	3.8	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Sidewall
SS92@8.5'	12/17/18	1,354	1.3	<0.0050	4.4	41	1,300	180	0.45	Sidewall
SS93@6'	12/17/18	7.1	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Sidewall
SS93@8.5'	12/17/18	807.4	0.34	<0.0050	0.79	11	500	300	0.077	Sidewall
SS94@6'	12/17/18	7.9	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Sidewall
SS94@8.5'	12/17/18	2,345	<0.0020	<0.0050	0.66	19	630	120	0.24	Sidewall
SS95@6'	12/18/18	3.2	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Sidewall
SS95@8.5'	12/18/18	2,487	<0.0020	<0.0050	<0.0050	<0.010	<50	99	<0.010	Sidewall
SS96@6'	12/18/18	7.2	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Sidewall
SS96@8.5'	12/18/18	51.2	0.0059	<0.0050	0.0066	0.069	<50	<50	<0.010	Sidewall
SS97@6'	12/18/18	5.6	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Sidewall
SS97@8.5'	12/18/18	198.5	0.16	<0.0050	0.055	0.22	<50	<50	<0.010	Sidewall
SS98@6'	12/18/18	1.2	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Sidewall
SS98@8.5'	12/18/18	42.0	0.083	<0.0050	0.023	0.066	<50	<50	<0.010	Sidewall
SS99@12'	12/18/18	397.5	<0.0020	<0.0050	0.32	1.4	140	<50	0.10	Base
SS100@14'	12/18/18	587.5	<0.0020	<0.0050	<0.0050	0.036	<50	<50	<0.010	Base
SS101@6'	12/18/18	11.8	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Sidewall
SS101@8.5'	12/18/18	229.7	0.015	<0.0050	0.0096	0.10	<50	<50	<0.010	Sidewall
SS102@6'	12/20/18	7.8	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Sidewall
SS102@8.5'	12/20/18	1,237	0.016	0.0069	<0.0050	0.022	<50	230	<0.010	Sidewall
SS103@10'	12/20/18	75.7	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Base
SS104@10'	12/20/18	2.2	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Base
SS105@6'	01/02/19	2.7	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Sidewall
SS105@8.5'	01/02/19	1,750	0.0036	<0.0050	13	98	4,800	1,300	1.9	Sidewall
SS106@10'	01/02/19	21.5	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Base
SS107@11'	01/02/19	79.2	0.0037	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Base
SS108@12'	01/02/19	7.0	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Base
SS109@10'	01/03/19	4.3	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Base
SS110@10'	01/03/19	5.0	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Base
SS111@6'	01/03/19	18.5	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Sidewall
SS111@8.5'	01/03/19	3,005	<0.0020	<0.0050	0.0062	0.077	<50	51	<0.010	Sidewall
SS112@6'	01/03/19	9.1	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	Sidewall
SS112@8.5'	01/03/19	1,913	<0.0020	<0.0050	0.069	1.0	<50	65	0.027	Sidewall

Notes:

COGCC = Colorado Oil and Gas Conservation Commission

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

PID = Photoionization Detector

ppm = parts per million

mg/kg = Milligrams per kilogram

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

Soil standards referenced from COGCC Table 910-1

Highlighted results are equal to or exceed the COGCC Table 910-1 standard