



April 22, 2020

Mr. Kyle Waggoner
Whiting Oil and Gas Corporation
56719 CR 127
New Raymer, CO 80742

Re: Razor 27I Confirmation Sampling Report – Addendum #1

Mr. Waggoner:

On January 22, 2020, Talon/LPE (Talon) submitted a Confirmation Sampling Report for the Razor 27I Site. The purpose of that report was to document site activities, including excavation, soil sampling, and soil borings. This Addendum serves to supplement that report to include more detail regarding the soil borings and related samples.

On March 28, 2017, Whiting notified the Colorado Oil and Gas Conservation Commission (COGCC) of a release due to a rupture in a poly line (COGCC Spill/Release ID 449810). Following emergency response activities, Whiting contractors performed excavation of impacted soil. This excavation continued until horizontal and vertical delineation of impacts was achieved, with the exception of the area at the northeast portion of the excavation. This area could not be excavated or sampled due to underground piping lines and aboveground infrastructure.

Between April 18, 2018 and May 29, 2018, Talon oversaw the drilling of eight (8) soil borings to the north and northeast of the 2017 excavation area to provide further delineation beyond the inaccessible area. Soil samples were collected from each of the eight (8) borings (Table 1). The collected samples were submitted to Summit Scientific (Summit) in Golden, Colorado, for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX) and total petroleum hydrocarbons (TPH). Benzene analytical results were above COGCC Table 910-1 concentration levels in SB-1@14-16.5' (0.5 mg/kg), SB-2@15-20' (0.19 mg/kg), SB-2@20-22' (0.19 mg/kg), and SB-5@14-19' (0.49 mg/kg). TPH analytical results were above COGCC Table 910-1 concentration levels in SB-1@14-16.5' (1461 mg/kg), SB-2@15-20' (2,936 mg/kg),



SB-2@20-22' (720 mg/kg), SB-5@14-19' (1720 mg/kg), and SB-5@20-21.5' (632 mg/kg).

Only one of the borings (SB-5) had enough volume of water to obtain for laboratory analysis. A sample of the water was collected from SB-5 on June 12, 2018, and sent to Summit for analysis of BTEX. The analytical result for benzene (1.4 mg/L) was above COGCC Table 910-1 concentration level. The remaining analytical results were below COGCC Table 910-1 concentration levels.

During drilling activities, a change in lithology was observed between 16-19 feet below ground surface (ft bgs). Observations that support a change in lithology include a color change from brownish gray to olive gray, higher consolidation, and a drop in observed odors and measured photoionization detector (PID) levels. This change in lithology indicates the presence of a confining layer at this deeper, more consolidated layer. This confining layer likely inhibited the downward migration of any existing impacts. In the case of SB-5, this layer was observed to be at approximately 19 ft bgs. The screened interval of the boring was 14 to 26 ft bgs.

Following delineation activities, an area to be excavated was proposed to Whiting. Whiting contractors performed excavation activities. These activities including excavating the existing soil boring temporary well structures in their entirety. Excavation continued outward and downward until confirmation soil samples indicated all horizontal and vertical impacts had been removed (Table 2). The vertical extent of the excavation aligned with the observed confining layer. Groundwater was not observed during excavation activities, indicating the water within soil boring SB-5 may have been a localized perched zone. Therefore, no groundwater was collected from the excavation.

As noted in the Razor 27I Site Summary Report, the area left in place to the north and northeast of the original excavation was removed following removal of the above-ground and underground infrastructure. All impacted soils from the site were treated via rock crushing and sampled prior to use as backfill within the excavated areas.

Based on the excavation activities, and collected analytical data, Talon/LPE believes that no further corrective action is necessary, and that Whiting can request closure from the COGCC regarding this release (COGCC Spill/Release ID 449810). If you have any questions or comments, please do not hesitate to call me at (970) 818-5330.



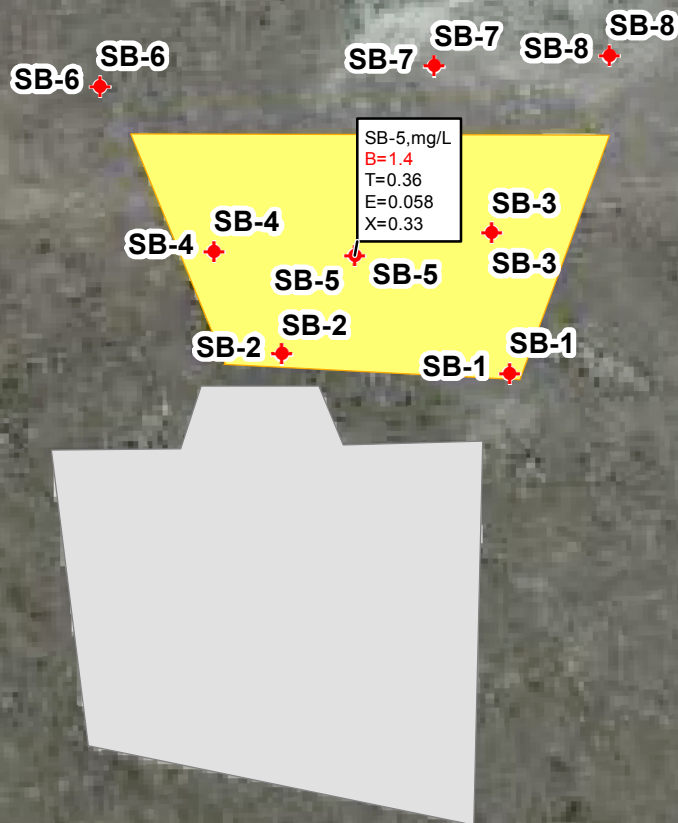
Respectfully Submitted,

A handwritten signature in black ink that reads "Jennifer Galles". The signature is written in a cursive, flowing style.

Jennifer Galles, P.G.
District Manager
Talon/LPE



0 50 100 Feet



Legend	
	Soil Boring
	Proposed Excavation Area
	Previous Excavation Area
COGCC Table 910-1 Concentration Levels	
B=0.005	
T=1	
E=0.7	
X=10	





Drafted: 6/29/2018
1 in = 100 ft
Drafted By: FOM

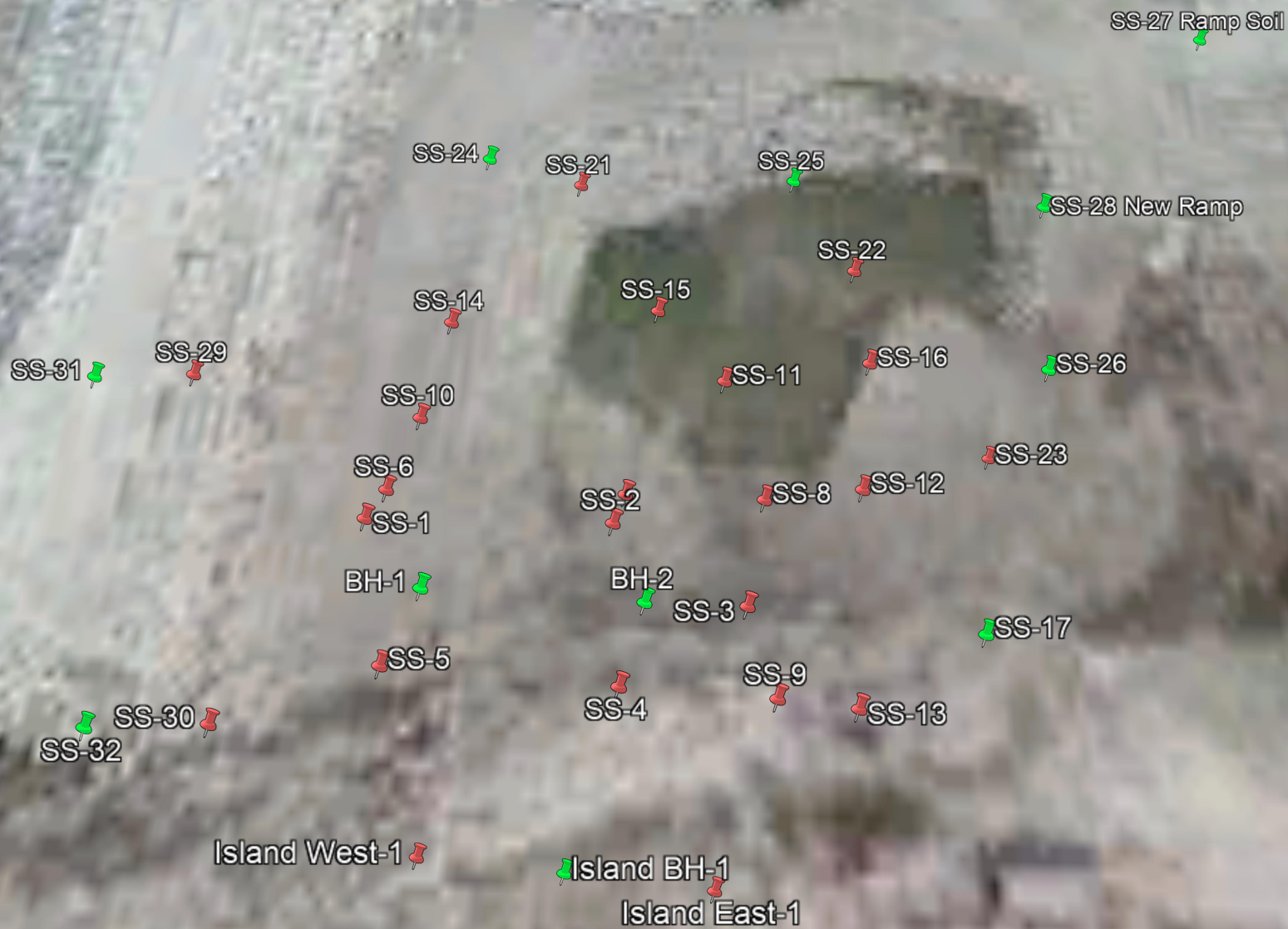
Whiting Oil and Gas Corporation
Razor 271
Weld County, CO
Figure 1 - Groundwater Concentration Map

Razor 27I

North Excavation

Legend

-  Soil Sample Failing
-  Soil Sample Passing



Google Earth

© 2018 Google



100 ft



Table 1 - Soil Boring Analytical Data

**Whiting Oil & Gas Corporation
Razor 27I
Weld County, Colorado**

Sample ID	Lab ID	Date Sampled	Concentration (mg/kg)						
			Benzene	Toluene	Ethyl-Benzene	Xylenes	GRO	DRO	TPH
COGCC Table 910-1 Concentration Levels			0.17	85	100	175	NA	NA	500
SB-1@4.5-9	1804264-01	04/16/18	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50
SB-1@14-16.5	1804264-02	04/16/18	0.5	0.45	0.39	5.9	61	1400	1461
SB-1@16.5-17.5	1804264-03	04/16/18	<0.0020	<0.0050	<0.0050	<0.0050	1.1	<50	<50
SB-2@10-15	1804264-04	04/16/18	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50
SB-2@15-20	1804264-05	04/16/18	0.19	0.84	0.18	9.8	36	2900	2936
SB-2@ 20-22	1804264-06	04/16/18	0.19	2.9	2.0	5.7	110	610	720
SB-2@ 22-25	1804264-07	04/16/18	<0.0020	<0.0050	<0.0050	0.0095	0.52	<50	<50
SB-3 @ 9-14	1805083-01	05/07/18	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50
SB-3 @14-19	1805083-02	05/07/18	0.16	0.54	0.25	1.4	71	97	168
SB-3 @19-21.5	1805083-03	05/07/18	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50
SB-4 @ 9-14	1805130-01	05/08/18	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50
SB-4 @14-16	1805130-02	05/08/18	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50
SB-4 @ 16-19	1805130-03	05/08/18	<0.0020	<0.0050	<0.0050	<0.0050	1.4	<50	1.4
SB-4 @ 19-24	1805130-04	05/08/18	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50
SB-5 @ 9-14	1805083-04	05/08/18	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50
SB-5 @14-19	1805083-05	05/08/18	0.49	0.87	0.3	3.0	120	1600	1720
SB-5 @ 20-21.5	1805083-06	05/08/18	0.014	0.031	0.13	0.85	32	600	632
SB-5 @ 24-26	1805083-07	05/08/18	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50
SB-6 @ 5-10'	1805334-01	05/29/18	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50
SB-6 @ 10-15'	1805334-02	05/29/18	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50
SB-7 @ 5-10'	1805334-03	05/29/18	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50
SB-7 @ 10-15'	1805334-04	05/29/18	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50



Table 1 - Soil Boring Analytical Data

**Whiting Oil & Gas Corporation
Razor 27I
Weld County, Colorado**

SB-8 @ 5-10'	1805334-05	05/29/18	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50
SB-8 @10-15'	1805334-06	05/29/18	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50

mg/kg - milligrams per kilogram

< - Analytical result is less than the reporting limit

COGCC - Colorado Oil and Gas Conservation Commission

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

TPH - Total Petroleum Hydrocarbons (Combined GRO/DRO)



**Table 2 - Soil Analytical Data
2017 / 2019 / Co-Mingled Excavations
Whiting Oil & Gas Corporation
Razor 27I
Weld County, Colorado**

Sample ID	Depth BGS in Feet	Date Sampled	Concentration (mg/kg)						
			Benzene	Toluene	Ethylbenzene	Xylenes (Total)	GRO	DRO	TPH
COGCC Table 910-1 Concentration Levels			0.17	85	100	175	NA	NA	500
West Excavation (2017 Release)									
BH-1	12	1/25/2018	0.023	<0.0050	0.013	0.092	7.6	260	267.6
BH-2	10	1/25/2018	0.029	<0.0050	0.0051	0.0072	1.1	<50	1.1
BH-3	12	2/22/2018	<0.0020	<0.0050	0.0050	0.02	1.6	150	151.6
BH-4	12	2/22/2018	<0.0020	<0.0050	0.0056	0.021	1.4	<50	1.4
SW-1	6	1/30/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50
SW-2	6	1/30/2018	0.19	3.5	0.45	2.00	45	1900	1945
SW-3	10	1/30/2018	5.8	30	19	52	2900	7400	10300
SW-4	6	1/30/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	220	220
SW-5	6	1/30/2018	0.057	0.5	0.32	1.00	30	2000	2030
SW-6	5	1/30/2018	0.0044	0.016	0.014	11	1300	2600	3900
SW-7	6.5	1/30/2018	<0.0020	<0.0050	<0.0050	0.014	38	<50	88
SW-8	5	1/30/2018	<0.0020	<0.0050	<0.0050	<0.0050	9.9	830	839.9
SW-9	6	2/7/2018	0.026	0.056	0.26	9.8	3600	38000	41600
SW-10	6	2/7/2018	0.003	<0.0050	<0.0050	<0.0050	4.0	1100	1104
SW-11	6	2/7/2018	0.15	0.62	0.41	1.2	49	680	729
SW-12	6	2/7/2018	5.8	24	13	34	2500	3300	5800
SW-13	8	2/13/2018	0.11	<0.0050	0.013	0.1	370	7100	7470
SW-14	6	2/13/2018	0.11	0.044	0.063	35	3400	14000	17400
SW-15	6	2/13/2018	0.0099	0.021	0.0072	2.9	43	3900	3943
SW-16	6	2/13/2018	18	92	31	110	6000	30000	36000
SW-17	6	2/14/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	140	140
SW-18	6	2/15/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50
SW-19	6	2/15/2018	0.6	0.4	4.7	12	330	4900	5230
SW-20	6	2/19/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50
SW-21	6	2/19/2018	0.012	0.06	0.045	0.63	190	9700	9890
SW-22	6	2/19/2018	<0.0020	<0.0050	<0.0050	0.0091	20	2800	2820



**Table 2 - Soil Analytical Data
2017 / 2019 / Co-Mingled Excavations
Whiting Oil & Gas Corporation
Razor 27I
Weld County, Colorado**

Sample ID	Depth BGS in Feet	Date Sampled	Concentration (mg/kg)						
			Benzene	Toluene	Ethylbenzene	Xylenes (Total)	GRO	DRO	TPH
COGCC Table 910-1 Concentration Levels			0.17	85	100	175	NA	NA	500
SW-23	6	2/19/2018	0.02	0.15	0.13	0.41	48	2300	2348
SW-24	6	2/19/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50
SW-25	6	2/22/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50
SW-26	6	2/22/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50
SW-27	6	2/22/2018	0.014	0.23	0.47	1.9	200	9600	9800
SW-28	6	2/22/2018	0.037	0.019	0.068	0.064	2.2	4400	4402.2
SW-29	6	2/22/2018	0.2	0.92	0.51	1.7	60	6300	6360
SW-30	6	2/22/2018	<0.0020	<0.0050	<0.0050	<0.0050	0.92	<50	0.92
SW-31	6	2/22/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50
SW-32	6	2/26/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50
SW-33	6	2/27/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50
SW-34	6	2/28/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50
SW-35	8	3/9/2018	0.0	0.2	0.018	1.20	47.0	3700	3747
SW-36	8	3/15/2018	0.0064	0.024	0.0098	0.23	24	270	294
North Excavation (2017 Release)									
SS-1	14	8/29/2018	9.7	20	25	93	2100	22000	24100
SS-2	14	8/29/2018	1.3	9.20	10.00	44.00	1100.0	19000	20100
SS-3	14	8/29/2018	0.4	3.70	3.00	23.00	910.0	13000	13910
SS-4	14	8/29/2018	9.5	21.00	19.00	96.00	2200.0	11000	13200
BH-1	15	8/29/2018	0.0	0.05	0.05	0.19	5.2	450	455
BH-2	15	8/29/2018	<0.0020	<0.0050	<0.0050	<0.010	<0.50	200	200
SS-5	14	8/29/2018	10.0	31.00	16.00	87.00	2300.0	25000	27300
SS-6	14	9/7/2018	0.0	0.02	<0.0050	0.20	14.0	16000	16014
SS-7	14	9/7/2018	0.1	5.50	11.00	52.00	2400.0	51000	53400
SS-8	14	9/7/2018	0.1	0.09	0.01	0.59	23.0	7500	7523
SS-9	14	9/7/2018	4.8	6.80	2.30	47.00	1800.0	19000	20800
SS-10	14	9/21/2018	0.4	1.30	2.30	9.30	140.0	5500	5640



**Table 2 - Soil Analytical Data
2017 / 2019 / Co-Mingled Excavations
Whiting Oil & Gas Corporation
Razor 27I
Weld County, Colorado**

Sample ID	Depth BGS in Feet	Date Sampled	Concentration (mg/kg)						
			Benzene	Toluene	Ethylbenzene	Xylenes (Total)	GRO	DRO	TPH
COGCC Table 910-1 Concentration Levels			0.17	85	100	175	NA	NA	500
SS-11	14	9/21/2018	0.2	0.29	0.07	3.40	84.0	6100	6184
SS-12	14	9/21/2018	0.3	0.75	0.78	2.30	36.0	1200	1236
SS-13	14	9/21/2018	0.4	0.27	0.16	3.40	95.0	7700	7795
SS-14	14	10/4/2018	0.0	0.04	0.01	0.24	5.2	1500	1505
SS-15	14	10/4/2018	0.1	0.21	0.06	0.90	12.0	4000	4012
SS-16	14	10/4/2018	0.0	0.13	0.08	0.24	2.8	740	743
SS-17	14	10/4/2018	<0.0020	<0.0050	<0.0050	0.06	2.5	390	393
SS-18	14	10/19/2018	0.0	0.14	0.13	0.40	6.2	840	846
SS-19	14	10/19/2018	<0.0020	<0.0050	0.03	0.09	2.2	1200	1202
SS-20	14	10/19/2018	<0.0020	0.01	0.01	0.05	1.9	1000	1002
SS-21	14	11/12/2018	<0.0020	0.02	0.04	0.15	12.0	2500	2512
SS-22	14	11/12/2018	<0.0020	<0.0050	0.03	1.00	100.0	22000	22100
SS-23	14	11/12/2018	<0.0020	<0.0050	0.02	0.07	4.1	17000	17004
SS-24	14	11/29/2018	<0.0020	<0.0020	<0.0050	0.02	0.6	<50	<50
SS-25	14	11/29/2018	<0.0050	<0.0050	<0.0050	0.03	3.0	<50	<50
SS-26	14	11/29/2018	<0.0050	<0.0050	<0.0050	0.02	2.7	<50	<50
SS-27	0	12/12/2018	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SS-28	12	12/12/2018	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SS-29	14	12/28/2018	<0.0020	0.03	<0.0050	0.30	17.0	3400	3417
SS-30	14	12/28/2018	<0.0020	<0.0050	0.02	0.06	8.1	650	658
SS-31	14	1/16/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SS-32	14	1/16/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SS-33	12	10/4/2019	0.1	0.01	0.03	0.09	9.7	5100	5110
SS-34	10	10/4/2019	0.0	<0.0050	<0.0050	0.07	11.0	2600	2611
SS-35	10	10/9/2019	<0.0020	<0.0050	<0.0050	<0.010	15.0	1100	1115
SS-36	10	10/9/2019	0.0	0.03	0.02	0.21	60.0	5600	5660
SS-37	12	10/9/2019	<0.0020	<0.0050	<0.0050	0.02	15.0	1500	1515



**Table 2 - Soil Analytical Data
2017 / 2019 / Co-Mingled Excavations
Whiting Oil & Gas Corporation
Razor 27I
Weld County, Colorado**

Sample ID	Depth BGS in Feet	Date Sampled	Concentration (mg/kg)						
			Benzene	Toluene	Ethylbenzene	Xylenes (Total)	GRO	DRO	TPH
COGCC Table 910-1 Concentration Levels			0.17	85	100	175	NA	NA	500
SS-38	12	10/14/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SS-39	12	10/14/2019	0.12	0.01	0.09	0.18	13.0	190	203
BH-1	15	8/29/2018	0.0	0.05	0.05	0.19	5.2	450	455
BH-2	15	8/29/2018	<0.0020	<0.0050	<0.0050	<0.010	<0.50	200	200
BH-3	14	10/31/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
BH-4	14	10/31/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
BH-5	14	10/31/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
North Excavation (2017 Release) Second Phase									
E-1	14	8/22/2019	<0.0020	<0.0050	<0.0050	<0.010	1.7	1100	1102
E-2	18	9/6/2019	<0.0020	<0.0050	<0.0050	<0.010	1.2	5200	5201
E-3	18	9/13/2019	<0.0020	<0.0050	<0.0050	<0.010	0.5	1200	1201
BH-1	18	8/22/2019	<0.0020	<0.0050	<0.0050	<0.010	0.6	<50	1
W-1	14	8/22/2019	0.022	0.010	0.012	1.10	310.0	30000	30310
W-2	18	9/6/2019	<0.0020	<0.0050	<0.0050	0.03	6.8	5600	5607
W-3	18	9/13/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SW SE	10	9/19/2019	<0.0020	<0.0050	<0.0050	0.11	74.0	5400	5474
SW SE 2	10	9/24/2019	0.003	<0.0050	<0.0050	0.22	17.0	2900	2917
East Excavation (2019 Release)									
SS-1	3	4/29/2019	0.43	6.90	12.00	71.00	3900	8100	12000
SS-2	3	4/29/2019	0.40	3.20	3.90	14.00	840	790	1630
SS-3	3	4/29/2019	0.01	0.04	0.10	0.55	33	1100	1133
SS-4	0	4/29/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SS-5	0	4/29/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SS-6	0	4/29/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SS-7	2.5	4/30/2019	<0.0020	<0.0050	<0.0050	<0.010	1	210	211
	3	5/1/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50



**Table 2 - Soil Analytical Data
2017 / 2019 / Co-Mingled Excavations
Whiting Oil & Gas Corporation
Razor 27I
Weld County, Colorado**

Sample ID	Depth BGS in Feet	Date Sampled	Concentration (mg/kg)						
			Benzene	Toluene	Ethylbenzene	Xylenes (Total)	GRO	DRO	TPH
COGCC Table 910-1 Concentration Levels			0.17	85	100	175	NA	NA	500
SS-8	2.5	4/30/2019	0.00	0.05	0.04	0.16	8	540	548
	3	5/1/2019	0.01	0.08	0.09	0.34	16	130	146
SS-9	2.5	4/30/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	260	260
	3	5/1/2019	<0.0020	0.02	0.01	0.02	1	<50	<50
SS-10	5	5/2/2019	0.00	0.02	0.02	69.00	2300	9400	11700
SS-11	3	5/2/2019	<0.0020	0.11	0.54	16.00	1100	8300	9400
SS-12	7	5/3/2019	0.06	6.90	10.00	38.00	3200	21000	24200
SS-13	10	5/10/2019	0.01	<0.0050	<0.0050	<0.010	<0.50	<50	<50
	8	5/10/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
	6	5/10/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
	4	5/10/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
	2	5/10/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SS-14	5	5/9/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
	10	5/9/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SS-15	3	5/9/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SS-16	2	5/13/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
	4	5/13/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
	6	5/13/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
	8	5/13/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
	10	5/10/2019	0.02	0.02	<0.0050	0.02	<0.50	<50	<50
SS-17	2	5/13/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
	4	5/13/2019	<0.0020	<0.0050	<0.0050	<0.010	1	79	80
	6	5/13/2019	<0.0020	<0.0050	<0.0050	<0.010	1	79	80
	8	5/13/2019	<0.0020	<0.0050	<0.0050	<0.010	1	<50	<50
	10	5/10/2019	0.07	0.32	0.17	0.59	21	270	291
SS-18	10	5/23/2019	0.14	2.90	7.10	27.00	1900	6300	8200
SS-19	10	5/23/2019	0.79	10.00	17.00	65.00	3100	9400	12500



**Table 2 - Soil Analytical Data
2017 / 2019 / Co-Mingled Excavations
Whiting Oil & Gas Corporation
Razor 27I
Weld County, Colorado**

Sample ID	Depth BGS in Feet	Date Sampled	Concentration (mg/kg)						
			Benzene	Toluene	Ethylbenzene	Xylenes (Total)	GRO	DRO	TPH
COGCC Table 910-1 Concentration Levels			0.17	85	100	175	NA	NA	500
SS-20	12	5/23/2019	4.50	36.00	29.00	85.00	2600	7400	10000
SS-21	13	5/23/2019	3.40	31.00	23.00	83.00	2600	10000	12600
SS-22	13	5/23/2019	1.10	18.00	17.00	56.00	1800	3500	5300
SS-23	13	5/31/2019	2.60	17.00	12.00	35.00	1400	2300	3700
SS-24	13	5/31/2019	<0.0020	<0.0050	<0.0050	<0.010	7	<50	<50
SS-25	12	5/31/2019	0.20	0.13	0.52	6.00	260	1800	2060
SS-26	12	5/31/2019	0.03	0.02	0.06	1.30	180	690	870
SS-27	13	6/3/2019	0.14	0.84	0.50	17.00	850	1100	1950
SS-28	16.5	6/3/2019	0.60	0.22	4.50	11.00	440	2300	2740
SS-29	16.5	6/3/2019	0.10	0.28	0.50	1.30	55	320	375
SS-30	15	6/4/2019	0.59	2.70	3.90	11.00	610	1300	1910
SS-31	14	6/4/2019	2.80	36.00	39.00	120.00	4500	19000	23500
SS-32	16	6/4/2019	<0.0020	0.98	1.70	5.60	610	3100	3710
SS-33	16	6/13/2019	3.20	46.00	110.00	330.00	19000	32000	51000
SS-34	16	6/20/2019	<0.0020	<0.0050	<0.0050	<0.010	1	<50	<50
SS-35	16	6/20/2019	<0.0020	<0.0050	<0.0050	0.08	450	1100	1550
SS-36	16	6/20/2019	<0.0020	<0.0050	<0.0050	0.41	370	720	1090
SS-37	16	6/20/2019	<0.0020	<0.0050	<0.0050	<0.010	5	82	87
SS-40	14	7/1/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	61	61
SS-41	16	7/3/2019	1.50	3.60	11.00	34.00	1300	3800	5100
SS-42	14	7/3/2019	0.06	0.08	0.13	0.38	8	160	168
SS-43	15	7/8/2019	<0.0020	<0.0050	<0.0050	0.02	28	650	678
SS-44	16	7/11/2019	<0.0020	0.08	0.14	1.30	97	2400	2497
SS-45	16	7/11/2019	0.15	0.10	0.29	0.75	29	530	559
SS-46	16	7/11/2019	0.03	0.01	0.03	0.09	6	950	956
SS-47	16	7/11/2019	<0.0020	<0.0050	<0.0050	<0.010	1	<50	<50
SS-48	16	7/11/2019	<0.0020	<0.0050	<0.0050	0.02	1	140	141
SS-49	16	7/11/2019	0.04	0.04	0.02	0.36	75	3000	3075



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Weld County, Colorado**

Sample ID	Depth BGS in Feet	Date Sampled	Concentration (mg/kg)						
			Benzene	Toluene	Ethylbenzene	Xylenes (Total)	GRO	DRO	TPH
COGCC Table 910-1 Concentration Levels			0.17	85	100	175	NA	NA	500
SS-50	16	7/11/2019	<0.0020	<0.0050	<0.0050	<0.010	1	<50	<50
SS-52	16	7/11/2019	<0.0020	<0.0050	<0.0050	<0.010	2	97	99
SS-53	16	7/15/2019	0.02	0.31	0.35	1.30	20	140	160
SS-54	16	7/17/2019	0.01	<0.0050	0.02	0.09	5	860	865
SS-55	16	7/17/2019	0.36	0.12	0.76	1.50	210	1000	1210
SS-56	18.5	7/17/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SS-57	16	7/19/2019	0.02	0.03	0.01	1.00	52	3500	3552
SS-58	16	7/19/2019	<0.0020	<0.0050	<0.0050	0.24	240	770	1010
SS-59	16	7/19/2019	<0.0020	<0.0050	<0.0050	<0.010	3	160	163
SS-60	16	7/23/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SS-61	16	7/23/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SS-62	16	7/24/2019	<0.0020	<0.0050	<0.0050	0.05	7	300	307
SS-63	19	7/30/2019	<0.0020	<0.0050	<0.0050	0.05	39	2100	2139
SS-64	19	7/30/2019	<0.0020	<0.0050	<0.0050	0.06	10	520	530
SS-65	19	7/30/2019	<0.0020	0.01	0.04	0.13	6	600	606
SS-66	19	7/30/2019	<0.0020	<0.0050	<0.0050	0.05	5	1500	1505
SS-67	20	8/7/2019	0.02	<0.0050	<0.0050	<0.010	1	320	321
SS-68	20	8/7/2019	0.00	0.01	0.01	0.03	2	100	102
SS-69	20	8/7/2019	0.01	<0.0050	<0.0050	<0.010	2	<50	<50
SS-70	20	8/7/2019	<0.0020	<0.0050	<0.0050	<0.010	1	<50	<50
SS-71	17	8/14/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SS-72	17	8/14/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
BH-1	16	7/11/2019	24.00	<0.0050	61.00	230.00	9000	33000	42000
BH-2	16	7/11/2019	<0.0020	<0.0050	<0.0050	<0.010	5	3400	3405
BH-3	16	7/11/2019	<0.0020	<0.0050	0.01	0.86	30	8400	8430
BH-4	16	7/11/2019	<0.0020	<0.0050	<0.0050	<0.010	1	170	171
BH-5	16	7/11/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
BH-6	16	7/11/2019	0.01	0.16	0.21	2.50	480	12000	12480
BH-7	16	7/11/2019	<0.0020	<0.0050	<0.0050	<0.010	1	110	111



**Table 2 - Soil Analytical Data
2017 / 2019 / Co-Mingled Excavations
Whiting Oil & Gas Corporation
Razor 27I
Weld County, Colorado**

Sample ID	Depth BGS in Feet	Date Sampled	Concentration (mg/kg)						
			Benzene	Toluene	Ethylbenzene	Xylenes (Total)	GRO	DRO	TPH
COGCC Table 910-1 Concentration Levels			0.17	85	100	175	NA	NA	500
BH-8	16	7/11/2019	2.30	5.20	4.80	12.00	640	1000	1640
BH-9	16	7/11/2019	0.01	0.04	0.04	0.13	18	59	77
BH-10	18.5	7/17/2019	0.03	<0.0050	0.03	0.09	4	160	164
BH-11	16	7/19/2019	0.14	0.06	0.09	21.00	1800	7500	9300
BH-12	18	8/14/2019	0.08	0.07	0.07	0.67	<0.50	<50	<50
BH-13	18	8/14/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
BH-14	18	8/14/2019	0.71	4.60	5.50	19.00	1200	1900	3100
	18.5	8/19/2019	0.07	0.14	0.11	0.51	110	2200	2310
	19	8/20/2019	0.02	0.01	0.01	0.04	1	63	64
BH-15	16.5	8/14/2019	<0.0020	<0.0050	<0.0050	<0.010	1	120	121
BH-16	16.5	8/14/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
BH-17	18	8/14/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SS-41	12	10/24/2019	0.0	<0.0050	0.03	0.20	26.0	440	466
SS-42	12	10/24/2019	0.1	0.02	0.16	0.40	14.0	430	444
BH-6	14	11/4/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	69	69
BH-7	14	11/4/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	63	63
BH-8	14	11/4/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50



**Table 2 - Soil Analytical Data
2017 / 2019 / Co-Mingled Excavations
Whiting Oil & Gas Corporation
Razor 27I
Weld County, Colorado**

Sample ID	Depth BGS in Feet	Date Sampled	Concentration (mg/kg)						
			Benzene	Toluene	Ethylbenzene	Xylenes (Total)	GRO	DRO	TPH
COGCC Table 910-1 Concentration Levels			0.17	85	100	175	NA	NA	500
Co-Mingled Soil (2017 & 2019 Releases)									
SS-38	16	7/1/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SS-39	14	7/1/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	75	75
SS-51	16	7/11/2019	<0.0020	<0.0050	0.01	0.04	3	120	123
SS-73	10	8/14/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50
BWW	12	9/30/2019	<0.0020	<0.0050	0.03	0.38	62	1800	1862
BWE	10	9/30/2019	<0.0020	<0.0050	0.01	0.02	20	1100	1120
SS-40	10	10/15/2019	<0.0020	<0.0050	<0.0050	<0.010	17.0	1100	1117
BH-9	14	11/4/2019	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter

< - Analytical result is less than the reporting limit

COGCC - Colorado Oil and Gas Conservation Commission

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

TPH - Total Petroleum Hydrocarbons (Combined GRO/DRO)

BGS - Below Ground Surface