



Table 1 - Soil Analytical Data

Whiting Oil & Gas Corporation
Razor 30K Tank Battery
Weld County, Colorado

Sample ID	Lab ID	Date Sampled	Concentration (mg/kg)							mmhos/cm	Units	
			Benzene	Toluene	Ethylbenzene	Xylenes (Total)	GRO	DRO	TPH	EC	SAR	pH
COGCC Table 910-1 Concentration Levels			0.17	85	100	175	NA	NA	500	<4	<12	6-9
BH-1 @ 6'	1610046-01	10/5/2016	0.069	0.053	0.0096	0.035	3.1	<50	3.1	10.2	30	8.35
BH-1 @ 8'	1610099-01	10/12/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.686	4.99	9.03
BH-1 @ 9'	1610150-05	10/19/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	2.39	4.92	8.58
BH-2 @ 4'	1610127-01	10/17/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.682	1.86	8.88
BH-3 @ 4'	1610169-05	10/20/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	4.85	12.7	8.32
BH-4 @ 4'	1610169-06	10/20/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	1.2	3.59	8.68
SW-N @ 4'	1610046-02	10/5/2016	0.031	0.022	<0.0050	0.0066	0.66	<50	0.66	18.9	50.8	8.52
SW-E @ 4'	1610046-03	10/5/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	4.26	11	8.95
SW-S @ 4'	1610046-04	10/5/2016	0.057	0.081	0.023	0.095	4.3	<50	4.3	12.5	24.4	8.66
SW-W @ 4'	1610046-05	10/5/2016	0.018	0.14	0.11	0.48	29	450	479	6.73	12.1	8.64
SW-1 @ 2'	1610127-02	10/17/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	8.4	18.2	8.15
SW-2 @ 2'	1610127-03	10/17/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.964	1.63	8.56
SW-3 @ 2'	1610127-04	10/17/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.954	1.31	8.55
SW-4 @ 2'	1610139-01	10/18/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	8.74	12.5	7.73
SW-5 @ 2'	1610139-02	10/18/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	6.08	6.89	7.93
SW-6 @ 6'	1610150-01	10/19/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	2.83	4.09	8.45
SW-7 @ 6'	1610150-02	10/19/2016	<0.0020	<0.0050	<0.0050	0.0077	9.2	260	269.2	3.88	8.81	8.11
SW-8 @ 6'	1610150-03	10/19/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	1.9	2.69	8.44
SW-9 @ 6'	1610150-04	10/19/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	4.22	6.5	8.61
SW-10 @ 3'	1610169-01	10/20/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	1.52	2.45	8.47
SW-11 @ 3'	1610169-02	10/20/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	3.81	7.38	8.41
SW-12 @ 3'	1610169-03	10/20/2016	<0.0020	<0.0050	<0.0050	<0.0050	0.5	<50	0.5	3.97	3.56	7.87
SW-13 @ 3'	1610169-04	10/20/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	1.79	2.97	8.38
UL-1	1610046-06	10/5/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	84	84	0.682	0.9	8.37
UL-2	1610063-01	10/7/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.575	1.5	8.36
UL-3	1610063-02	10/7/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	3.99	8.75	8.88
UL-4	1610063-03	10/7/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	2.58	0.5	9.61
UL-4 @ 1'	1610107-01	10/14/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.831	7.48	8.8
UL-5	1610083-01	10/11/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	2.12	7.64	9.22
UL-5 @ 1'	1610107-02	10/14/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	1.15	5.96	8.48
UL-6	1610083-02	10/11/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.708	1.63	8.47
UL-7	1610083-03	10/11/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	3.87	13.8	9.09
UL-7 @ 1'	1610107-03	10/14/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.881	5.39	8.55
UL-8	1610083-04	10/11/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.351	0.316	8.78
UL-9	1610083-05	10/11/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.322	0.196	8.74
UL-10	1610083-06	10/11/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.353	0.648	8.96
P-1 @ 1'	1610046-07	10/5/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.646	2.56	8.98
P-2 @ 1'	1610046-08	10/5/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	1.36	2.8	8.54
P-3 @ 1'	1610046-09	10/5/2016	0.048	0.026	<0.0050	<0.0050	<0.5	<50	<50	6.06	5.53	7.72
P-4 @ 1'	1610046-10	10/5/2016	<0.0018	<0.0045	<0.0045	<0.0045	<0.45	<50	<50	0.384	1.48	8.82
P-5 @ 1'	1610046-11	10/5/2016	0.04	0.019	<0.0050	<0.0050	0.79	72	72.79	5.18	9.54	7.93
P-6 @ 1'	1610046-12	10/5/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	7.82	21.4	8.5



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			Benzene	Toluene	Ethylbenzene	Xylenes (Total)	GRO	DRO	TPH	EC	SAR	pH
COGCC Table 910-1 Concentration Levels			0.17	85	100	175	NA	NA	500	<4	<12	6-9
Pothole A @ 2'	1610099-02	10/12/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	1.96	5.94	8.16
Pothole A @ 3'	1610099-03	10/12/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.824	6.22	8.91
Pothole A @ 4'	1610099-04	10/12/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.744	7.48	9.04
	1610114-01	10/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.89
Pothole B @ 1'	1610099-05	10/12/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.74	7.75	8.97
Pothole B @ 2'	1610099-06	10/12/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.964	5.9	8.7
Pothole B @ 3'	1610099-07	10/12/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.844	6.32	8.8
Pothole B @ 4'	1610099-08	10/12/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.871	6.08	8.7
Pothole C @ 1'	1610099-09	10/12/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	1.34	6.96	8.33
Pothole C @ 2'	1610099-10	10/12/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	4.01	13.4	8.08
Pothole C @ 3'	1610099-11	10/12/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.778	7.84	8.78
Pothole C @ 4'	1610099-12	10/12/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.794	8.21	8.7
Pothole D @ 2'	1610099-13	10/12/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.68	7.61	8.86
Pothole D @ 3'	1610099-14	10/12/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	5.26	13.1	7.83
Pothole D @ 4'	1610099-15	10/12/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.704	8.05	8.82
Pothole D @ 5'	1610099-16	10/12/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.575	8.1	8.92
Pothole E @ 1'	1610099-17	10/12/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.57	6.7	8.97
Pothole E @ 2'	1610099-18	10/12/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.969	6.55	8.64
Pothole E @ 3'	1610099-19	10/12/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.801	7.35	8.79
Pothole E @ 4'	1610099-20	10/12/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.774	7.43	8.71
Pothole E @ 5'	1610099-21	10/12/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.632	6.03	8.83
Pothole F @ 2'	1610099-22	10/12/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.602	5.83	8.84
Pothole F @ 3'	1610099-23	10/12/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.702	6.22	8.8
Pothole F @ 4'	1610099-24	10/12/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.736	4.2	8.82
Pothole F @ 5'	1610099-25	10/12/2016	<0.0020	<0.0050	<0.0050	<0.0050	<0.5	<50	<50	0.698	6.6	8.75

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)

EC - Electrical Conductivity

SAR - Sodium Adsorption Ratio

NA - Not Analyzed