

TABLE 1
ALBERT SACK UNIT 1 PRODUCTION FACILITY
GROUNDWATER SAMPLE RESULTS SUMMARY TABLE
KERR-McGEE OIL AND GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water (ft. BGS)	Relative GW Elev. (ft)
COGCC Table 910-1 standards for groundwater (µg/L)⁽¹⁾		5	560	700	1400		
GW01	10/30/2014	3,140	1,400	618	8,040	~10	
GW02	11/5/2014	2,250	564	354	4,420	~10	
BH01	4/14/2015	226	1.0	350	3,830	7.02	4964.56
	7/6/2015	147	4.0	223	2,540	5.14	4966.44
	10/26/2015	133	4.0	113	1,100	3.21	4968.37
	1/25/2016	100	<4.0	61	404	5.11	4966.47
	4/26/2016	335	<4.0	193	1,070	5.27	4966.31
	7/12/2016	38.7	<4.00	32.0	196	7.70	4963.88
	10/3/2016	36.9	<1.00	9.72	81.0	5.61	4965.97
	1/10/2017	32.5	<1.00	32.0	230	9.11	4962.47
	4/17/2017	10.5	<1.00	28.4	235	10.72	4962.47
	7/25/2017	<1.00	<1.00	<1.00	6.19	6.77	4960.86
	10/18/2017	16.9	<1.00	<1.00	32.4	7.48	4964.81
	1/23/2018	12.1	<1.00	5.56	9.26	9.74	4964.10
	2/1/2018	Monitoring well abandoned for wellpad construction					
BH01R	3/25/2019	80.5	<50.0	201	2,600	NM	NA
	3/25/2019	Monitoring well abandoned					
BH02	4/14/2015	393	1.0	79.5	377	10.79	4963.87
	7/6/2015	787	4.0	161	846	8.91	4965.75
	10/26/2015	97.2	20.0	20.0	20.0	6.08	4968.58
	1/25/2016	Not sampled - Well inaccessible				NM	NM
	4/26/2016	183	<4.0	<4.0	34.3	8.18	4966.48
	7/12/2016	22.7	<4.00	<4.00	<4.00	10.51	4964.15
	10/3/2016	41.8	<4.00	<4.00	<4.00	8.56	4966.10
	1/10/2017	37.3	<1.00	3.59	15.7	11.99	4962.67
	4/17/2017	3.29	<1.00	<1.00	<1.00	13.58	4962.67
	7/25/2017	<1.00	<1.00	<1.00	<1.00	9.50	4961.08
	10/18/2017	2.88	<1.00	<1.00	4.27	10.36	4965.16
	1/23/2018	64.0	<1.00	13.5	48.8	12.62	4964.30
	2/1/2018	Monitoring well abandoned for wellpad construction					

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COGCC Table 910-1 standards for groundwater (µg/L)⁽¹⁾		5	560	700	1400		
BH02R	3/28/2019	2,040	<1.00	839	9,310	10.87	NM
	6/12/2019			Monitoring well abandoned			
BH03	4/14/2015	328	1.0	135	57.4	10.56	4960.52
	7/6/2015	128	4.0	23.8	8.4	8.89	4962.19
	10/26/2015	27.0	1.0	8.5	1.0	6.96	4964.12
	1/25/2016	53.6	<1.0	12	<1.0	8.75	4962.33
	4/26/2016	166	<1.0	23.8	<1.0	8.89	4962.19
	7/12/2016	12.3	<1.00	2.31	<1.00	7.18	4963.90
	10/3/2016	1.23	<1.00	<1.00	<1.00	5.62	4965.46
	1/10/2017	5.52	<1.00	1.60	<1.00	8.58	4962.50
	4/17/2017	3.84	<1.00	1.52	<1.00	NM	NM
	4/18/2017	<1.00	<1.00	<1.00	<1.00	10.18	4962.50
	7/25/2017	<1.00	<1.00	<1.00	<1.00	6.08	4960.90
	10/18/2017	<1.00	<1.00	<1.00	<1.00	7.01	4965.00
	1/23/2018	<1.00	<1.00	<1.00	<1.00	9.16	4964.07
	2/1/2018	Monitoring well abandoned for wellpad construction					
BH04	4/14/2015	4.0	4.0	279	1,110	10.83	4960.86
	7/6/2015	4.0	4.0	59.4	411	9.12	4962.57
	10/26/2015	4.0	4.0	60.7	210	6.99	4964.70
	1/25/2016	<1.0	<1.0	31.5	106	8.92	4962.77
	4/26/2016	<1.0	<1.0	15.7	45.5	9.07	4962.62
	7/12/2016	1.26	<1.00	47.7	149	7.47	4964.22
	10/3/2016	<4.00	<4.00	49.4	247	6.11	4965.58
	1/10/2017	<1.00	<1.00	63.0	262	8.80	4962.89
	4/17/2017	<1.00	<1.00	66.7	250	10.42	4962.89
	7/25/2017	<1.00	<1.00	35.1	214	6.25	4961.27
	10/18/2017	2.46	<1.00	118	413	7.16	4965.44
	1/23/2018	Not sampled - Unable to locate well				NM	NM
	1/26/2018	<4.00	<4.00	30.0	152	8.54	4964.53
	2/1/2018	Monitoring well abandoned for wellpad construction					

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COGCC Table 910-1 standards for groundwater (µg/L)⁽¹⁾		5	560	700	1400		
BH05	4/14/2015	7.2	1.0	26.2	208	10.90	4864.43
	7/6/2015	25.1	4.0	329	2,280	9.31	4866.02
	10/26/2015	6.8	1.0	39.8	223	6.87	4868.46
	1/25/2016	Monitoring well destroyed					
BH05R	7/12/2016	<4.00	<4.00	43.1	230	7.49	4964.10
	10/3/2016	<4.00	<4.00	11.2	63.7	5.80	4965.79
	1/10/2017	1.75	<1.00	84.7	264	8.74	4962.85
	4/17/2017	1.11	<1.00	74.5	294	10.38	4962.85
	7/25/2017	<1.00	<1.00	8.64	77.2	6.29	4961.21
	10/18/2017	1.04	<1.00	8.38	47.0	7.00	4965.30
	1/23/2018	<1.00	<1.00	11.2	31.7	9.38	4964.59
	2/1/2018	Monitoring well abandoned for wellpad construction					
BH05R2	3/28/2019	1.72	<1.00	232	1,040	10.24	4960.39
	6/28/2019	<1.00	<1.00	<1.00	<1.00	9.79	4960.84
	9/11/2019	<4.00	<4.00	50.0	218	7.42	4963.21
BH06	7/6/2015	1.0	1.0	36.6	430	9.18	4962.28
	10/26/2015	1.0	1.0	11.2	108	6.65	4964.81
	1/25/2016	<1.0	<1.0	15.4	161	8.77	4962.69
	4/26/2016	<1.0	<1.0	32.1	323	8.96	4962.50
	7/12/2016	<1.00	<1.00	9.15	96.7	7.45	4964.01
	10/3/2016	<4.00	<4.00	49.7	364	5.64	4965.82
	1/10/2017	<1.00	<1.00	12.5	108	8.66	4962.80
	4/17/2017	<1.00	<1.00	3.66	37.2	10.32	4962.80
	7/25/2017	<1.00	<1.00	2.57	41.9	6.28	4961.14
	10/18/2017	<1.00	<1.00	25.3	371	6.94	4965.18
	1/23/2018	<1.00	<1.00	14.6	92.6	9.32	4964.52
	2/1/2018	Monitoring well abandoned for wellpad construction					

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COGCC Table 910-1 standards for groundwater (µg/L)⁽¹⁾		5	560	700	1400		
BH07	7/6/2015	1.0	1.0	155	2,430	9.14	4962.58
	10/26/2015	1.0	1.0	27.0	189	6.67	4965.05
	1/25/2016	<4.0	<4.0	57.4	433	9.86	4961.86
	4/26/2016	<1.0	<1.0	30.8	153	8.97	4962.75
	7/12/2016	<1.00	<1.00	10.8	53.9	7.44	4964.28
	10/3/2016	<4.00	<4.00	12.6	140	5.89	4965.83
	1/10/2017	<1.00	<1.00	40.0	256	8.77	4962.95
	4/17/2017	<1.00	<1.00	38.6	199	10.43	4962.95
	7/25/2017	<1.00	<1.00	10.3	128	6.32	4961.29
	10/18/2017	<1.00	<1.00	221	677	7.04	4965.40
	1/23/2018	<1.00	<1.00	72.3	470	9.42	4964.68
	2/1/2018	Monitoring well abandoned for wellpad construction					
BH08	7/6/2015	3.5	1.0	13.9	1.0	8.34	4962.42
	10/26/2015	2.0	1.0	5.0	1.0	6.54	4964.22
	1/25/2016	2.1	<1.0	<1.0	<1.0	8.25	4962.51
	4/26/2016	5.1	<1.0	<1.0	<1.0	8.40	4962.36
	7/12/2016	2.31	<1.00	1.73	22.9	6.63	4964.13
	10/3/2016	3.57	<1.00	9.92	12.8	5.31	4965.45
	1/10/2017	<1.00	<1.00	<1.00	<1.00	8.29	4962.47
	4/17/2017	<1.00	<1.00	<1.00	<1.00	9.81	4962.47
	7/25/2017	<1.00	<1.00	<1.00	<1.00	5.73	4960.95
	10/18/2017	<1.00	<1.00	<1.00	<1.00	6.74	4965.03
	1/23/2018	<1.00	<1.00	<1.00	<1.00	8.88	4964.02
	2/1/2018	Monitoring well abandoned for wellpad construction					
BH08R	3/25/2019	4.46	<1.00	1.46	<1.00	NM	NM
	3/25/2019	Monitoring well abandoned					

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COGCC Table 910-1 standards for groundwater (µg/L)⁽¹⁾		5	560	700	1400		
BH09	7/6/2015	141	1.0	1.0	1.0	8.84	4961.95
	10/26/2015	171	1.0	1.0	1.0	6.99	4963.80
	1/25/2016	125	<1.0	<1.0	<1.0	8.76	4962.03
	4/26/2016	105	<1.0	<1.0	<1.0	8.84	4961.95
	7/12/2016	159	<1.00	1.58	1.96	7.27	4963.52
	10/3/2016	2.08	<1.00	<1.00	<1.00	5.14	4965.65
	1/10/2017	70.2	<1.00	<1.00	<1.00	8.61	4962.18
	4/17/2017	9.96	<1.00	<1.00	<1.00	10.12	4962.18
	7/25/2017	<1.00	<1.00	<1.00	<1.00	6.23	4960.67
	10/18/2017	1.20	<1.00	<1.00	<1.00	7.03	4964.56
	1/23/2018	198	<1.00	1.62	<1.00	9.20	4963.76
	2/1/2018	Monitoring well abandoned for wellpad construction					
BH09R	3/25/2019	106	<4.00	<4.00	<4.00	NM	NM
	3/25/2019	Monitoring well abandoned					
BH10	7/6/2015	1.2	1.0	8.1	1.0	8.24	4962.92
	10/26/2015	4.8	1.0	37.4	1.0	6.94	4964.22
	1/25/2016	3.0	<1.0	40.2	<1.0	8.85	4962.31
	4/26/2016	<4.0	<4.0	9.5	<4.0	9.01	4962.15
	7/12/2016	2.18	<1.00	14.8	<1.00	7.54	4963.62
	10/3/2016	<1.00	<1.00	<1.00	<1.00	5.11	4966.05
	1/10/2017	<1.00	<1.00	<1.00	<1.00	8.85	4962.31
	4/17/2017	<1.00	<1.00	<1.00	<1.00	10.45	4962.31
	7/25/2017	<1.00	<1.00	<1.00	<1.00	6.59	4960.71
	10/18/2017	<1.00	<1.00	<1.00	<1.00	7.22	4964.57
	1/23/2018	<1.00	<1.00	<1.00	<1.00	9.47	4963.94
	2/1/2018	Monitoring well abandoned for wellpad construction					
BH10R	3/25/2019	<1.00	<1.00	<1.00	<1.00	NM	NM
	3/25/2019	Monitoring well abandoned					
BH11	10/26/2015	1.0	1.0	1.0	1.0	6.82	4873.66
	1/25/2016	Monitoring well destroyed					

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COGCC Table 910-1 standards for groundwater (µg/L)⁽¹⁾		5	560	700	1400		
BH11R	7/12/2016	16.9	<1.00	34.5	21.2	7.05	4963.40
	10/3/2016	<1.00	<1.00	<1.00	<1.00	4.34	4966.11
	1/10/2017	<1.00	<1.00	50.4	24.5	8.57	4961.88
	4/17/2017	<1.00	<1.00	48.2	9.02	9.99	4961.88
	7/25/2017	<1.00	<1.00	12.0	2.52	6.15	4960.46
	10/18/2017	<1.00	<1.00	3.55	<1.00	7.10	4964.30
	1/23/2018	8.59	<1.00	12.9	1.00	9.10	4963.35
	2/1/2018	Monitoring well abandoned for wellpad construction					
BH11R2	3/25/2019	2.69	<1.00	1.62	<1.00	NM	NM
	3/25/2019	Monitoring well abandoned					
BH12	10/26/2015	1.0	1.0	119	552	6.45	4963.35
	1/25/2016	<1.0	<1.0	199	774	7.93	4961.87
	4/26/2016	<1.0	<1.0	202	936	8.02	4961.78
	7/12/2016	<4.00	<4.00	73.4	395	6.16	4963.64
	10/3/2016	<4.00	<4.00	27.2	281	4.60	4965.20
	1/10/2017	<1.00	<1.00	147	718	7.78	4962.02
	4/17/2017	<1.00	<1.00	114	994	9.27	4962.02
	7/25/2017	<4.00	<4.00	70.1	545	5.35	4960.53
	10/18/2017	<1.00	<1.00	40.5	298	6.43	4964.45
	1/23/2018	<4.00	<4.00	39.8	384	8.41	4963.37
	2/1/2018	Monitoring well abandoned for wellpad construction					
BH12R	3/25/2019	<4.00	<4.00	<4.00	<4.00	NM	NM
	3/25/2019	Monitoring well abandoned					
BH13	3/25/2019	<1.00	<1.00	<1.00	<1.00	NM	NM
	3/25/2019	Monitoring well abandoned					
BH14	3/25/2019	<1.00	<1.00	<1.00	<1.00	NM	NM
	3/25/2019	Monitoring well abandoned					
BH15	3/25/2019	<1.00	<1.00	<1.00	<1.00	NM	NM
	3/25/2019	Monitoring well abandoned					

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COGCC Table 910-1 standards for groundwater (µg/L) ⁽¹⁾		5	560	700	1400		

Notes:

(1) Standards for groundwater are taken from 2 CCR 404-1, Table 910-1, effective May 1, 2018.

COGCC = Colorado Oil and Gas Conservation Commission

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

µg/L = Micrograms ; =Active remediation implementation period

ft. BGS = Feet below ground surface.

NM = Not measured.

BOLD = Analytical result is in exceedance of COGCC Table 910-1 groundwater standards.