

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. BTOC)
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	11.02
	7/6/2015	147	<4.0	223	2,540	9.14
	10/26/2015	133	<4.0	113	1,100	7.21
	1/25/2016	100	<4.0	61	404	9.11
	4/26/2016	335	<4.0	193	1,070	9.27
	7/12/2016	38.7	<4.00	32.0	196	11.70
	10/3/2016	36.9	<1.00	9.72	81.0	9.61
	1/10/2017	32.5	<1.00	32.0	230	13.11
	4/17/2017	10.5	<1.00	28.4	235	14.72
	7/25/2017	<1.00	<1.00	<1.00	6.19	10.77
	10/18/2017	16.9	<1.00	<1.00	32.4	11.48
	1/23/2018	12.1	<1.00	5.56	9.26	13.74
	2/1/2018	Monitoring Well Abandoned for Wellpad Construction				
BH02	4/14/2015	393	<1.0	79.5	377	10.79
	7/6/2015	787	<4.0	161	846	8.91
	10/26/2015	97.2	<20.0	<20.0	<20.0	6.08
	1/25/2016	Not Sampled - Well Inaccessible				NM
	4/26/2016	183	<4.0	<4.0	34.3	8.18
	7/12/2016	22.7	<4.00	<4.00	<4.00	10.51
	10/3/2016	41.8	<4.00	<4.00	<4.00	8.56
	1/10/2017	37.3	<1.00	3.59	15.7	11.99
	4/17/2017	3.29	<1.00	<1.00	<1.00	13.58
	7/25/2017	<1.00	<1.00	<1.00	<1.00	9.50
	10/18/2017	2.88	<1.00	<1.00	4.27	10.36
	1/23/2018	64.0	<1.00	13.5	48.8	12.62
	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		
BH03	4/14/2015	328	<1.0	135	57.4	10.56	
	7/6/2015	128	<4.0	23.8	8.4	8.89	
	10/26/2015	27	<1.0	8.5	<1.0	6.96	
	1/25/2016	53.6	<1.0	12	<1.0	8.75	
	4/26/2016	166	<1.0	23.8	<1.0	8.89	
	7/12/2016	12.3	<1.00	2.31	<1.00	7.18	
	10/3/2016	1.23	<1.00	<1.00	<1.00	5.62	
	1/10/2017	5.52	<1.00	1.60	<1.00	8.58	
	4/18/2017	<1.00	<1.00	<1.00	<1.00	10.18	
	7/25/2017	<1.00	<1.00	<1.00	<1.00	6.08	
	10/18/2017	<1.00	<1.00	<1.00	<1.00	7.01	
	1/23/2018	<1.00	<1.00	<1.00	<1.00	9.16	
	2/1/2018	Monitoring Well Abandoned for Wellpad Construction					
	BH04	4/14/2015	<1.0	<1.0	279	1,110	10.83
7/6/2015		<4.0	<4.0	59.4	411	9.12	
10/26/2015		<4.0	<4.0	60.7	210	6.99	
1/25/2016		<1.0	<1.0	31.5	106	8.92	
4/26/2016		<1.0	<1.0	15.7	45.5	9.07	
7/12/2016		1.26	<1.00	47.7	149	7.47	
10/3/2016		<4.00	<4.00	49.4	247	6.11	
1/10/2017		<1.00	<1.00	63.0	262	8.80	
4/17/2017		<1.00	<1.00	66.7	250	10.42	
7/25/2017		<1.00	<1.00	35.1	214	6.25	
10/18/2017		2.46	<1.00	118	413	7.16	
1/23/2018		Not Sampled - Unable to Locate Well					NM
1/26/2018		<4.00	<4.00	30.0	152	8.54	
2/1/2018		Monitoring Well Abandoned for Wellpad Construction					

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Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth To Water (ft. BTOC)
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
	7/6/2015	25.1	<4.0	329	2,280	9.31
	10/26/2015	6.8	<1.0	39.8	223	6.87
	1/25/2016	Monitoring Well Destroyed				
BH05R	7/12/2016	<4.00	<4.00	43.1	230	7.49
	10/3/2016	<4.00	<4.00	11.2	63.7	5.80
	1/10/2017	1.75	<1.00	84.7	264	8.74
	4/17/2017	1.11	<1.00	74.5	294	10.38
	7/25/2017	<1.00	<1.00	8.64	77.2	6.29
	10/18/2017	1.04	<1.00	8.38	47.0	7.00
	1/23/2018	<1.00	<1.00	11.2	31.7	9.38
	2/1/2018	Monitoring Well Abandoned for Wellpad Construction				
BH06	7/6/2015	<1.0	<1.0	36.6	430	9.18
	10/26/2015	<1.0	<1.0	11.2	108	6.65
	1/25/2016	<1.0	<1.0	15.4	161	8.77
	4/26/2016	<1.0	<1.0	32.1	323	8.96
	7/12/2016	<1.00	<1.00	9.15	96.7	7.45
	10/3/2016	<4.00	<4.00	49.7	364	5.64
	1/10/2017	<1.00	<1.00	12.5	108	8.66
	4/17/2017	<1.00	<1.00	3.66	37.2	10.32
	7/25/2017	<1.00	<1.00	2.57	41.9	6.28
	10/18/2017	<1.00	<1.00	25.3	371	6.94
	1/23/2018	<1.00	<1.00	14.6	92.6	9.32
	2/1/2018	Monitoring Well Abandoned for Wellpad Construction				

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Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth To Water (ft. BTOC)
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
	10/26/2015	<1.0	<1.0	27	189	6.67
	1/25/2016	<1.0	<1.0	57.4	433	9.86
	4/26/2016	<1.0	<1.0	30.8	153	8.97
	7/12/2016	<1.00	<1.00	10.8	53.9	7.44
	10/3/2016	<4.00	<4.00	12.6	140	5.89
	1/10/2017	<1.00	<1.00	40.0	256	8.77
	4/17/2017	<1.00	<1.00	38.6	199	10.43
	7/25/2017	<1.00	<1.00	10.3	128	6.32
	10/18/2017	<1.00	<1.00	221	677	7.04
	1/23/2018	<1.00	<1.00	72.3	470	9.42
	2/1/2018	Monitoring Well Abandoned for Wellpad Construction				
BH08	7/6/2015	3.5	<1.0	13.9	<1.0	8.34
	10/26/2015	2	<1.0	5	<1.0	6.54
	1/25/2016	2.1	<1.0	<1.0	<1.0	8.25
	4/26/2016	5.1	<1.0	<1.0	<1.0	8.40
	7/12/2016	2.31	<1.00	1.73	22.9	6.63
	10/3/2016	3.57	<1.00	9.92	12.8	5.31
	1/10/2017	<1.00	<1.00	<1.00	<1.00	8.29
	4/17/2017	<1.00	<1.00	<1.00	<1.00	9.81
	7/25/2017	<1.00	<1.00	<1.00	<1.00	5.73
	10/18/2017	<1.00	<1.00	<1.00	<1.00	6.74
	1/23/2018	<1.00	<1.00	<1.00	<1.00	8.88
	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	
BH09	7/6/2015	141	<1.0	<1.0	<1.0	8.84
	10/26/2015	171	<1.0	<1.0	<1.0	6.99
	1/25/2016	125	<1.0	<1.0	<1.0	8.76
	4/26/2016	105	<1.0	<1.0	<1.0	8.84
	7/12/2016	159	<1.00	1.58	1.96	7.27
	10/3/2016	2.08	<1.00	<1.00	<1.00	5.14
	1/10/2017	70.2	<1.00	<1.00	<1.00	8.61
	4/17/2017	9.96	<1.00	<1.00	<1.00	10.12
	7/25/2017	<1.00	<1.00	<1.00	<1.00	6.23
	10/18/2017	1.20	<1.00	<1.00	<1.00	7.03
	1/23/2018	198	<1.00	1.62	<1.00	9.20
	2/1/2018	Monitoring Well Abandoned for Wellpad Construction				
BH10	7/6/2015	1.2	<1.0	8.1	<1.0	8.24
	10/26/2015	171	<1.0	37.4	<1.0	6.94
	1/25/2016	3	<1.0	40.2	<1.0	8.85
	4/26/2016	<4.0	<4.0	9.5	<4.0	9.01
	7/12/2016	2.18	<1.00	14.8	<1.00	7.54
	10/3/2016	<1.00	<1.00	<1.00	<1.00	5.11
	1/10/2017	<1.00	<1.00	<1.00	<1.00	8.85
	4/17/2017	<1.00	<1.00	<1.00	<1.00	10.45
	7/25/2017	<1.00	<1.00	<1.00	<1.00	6.59
	10/18/2017	<1.00	<1.00	<1.00	<1.00	7.22
	1/23/2018	<1.00	<1.00	<1.00	<1.00	9.47
	2/1/2018	Monitoring Well Abandoned for Wellpad Construction				
BH11	10/26/2015	<1.0	<1.0	<1.0	<1.0	6.82
	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
	10/3/2016	<1.00	<1.00	<1.00	<1.00	4.34
	1/10/2017	<1.00	<1.00	50.4	24.5	8.57
	4/17/2017	<1.00	<1.00	48.2	9.02	9.99
	7/25/2017	<1.00	<1.00	12.0	2.52	6.15
	10/18/2017	<1.00	<1.00	3.55	<1.00	7.10
	1/23/2018	8.59	<1.00	12.9	1.00	9.10
	2/1/2018	Monitoring Well Abandoned for Wellpad Construction				
BH12	10/26/2015	<1.0	<1.0	119	552	6.45
	1/25/2016	<1.0	<1.0	199	774	7.93
	4/26/2016	<1.0	<1.0	202	936	8.02
	7/12/2016	<4.00	<4.00	73.4	395	6.16
	10/3/2016	<4.00	<4.00	27.2	281	4.60
	1/10/2017	<1.00	<1.00	147	718	7.78
	4/17/2017	<1.00	<1.00	114	994	9.27
	7/25/2017	<4.00	<4.00	70.1	545	5.35
	10/18/2017	<1.00	<1.00	40.5	298	6.43
	1/23/2018	<4.00	<4.00	39.8	384	8.41
	2/1/2018	Monitoring Well Abandoned for Wellpad Construction				

Notes:

1. Standards for groundwater are taken from 2 CCR 404-1, Table 910-1, effective January 30, 2015.

COGCC = Colorado Oil and Gas Conservation Commission

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

µg/L = Micrograms per liter.

ft. BTOC = Feet below top of casing.

NM = Not measured

* feet below ground surface

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