

Table D6-7b Vertical Hydraulic Gradients, Lost Creek Project (Page 1 of 4)

Well ID	Easting (feet)	Northing (feet)	Completion Zone	Measure Point Elevation (ft msl) ¹	Top Underreamed Interval (ft bgs) ²	Bottom Underreamed Interval (ft bgs) ²	Midpoint Underreamed Interval (ft bgs) ³	Date of Measurement	Depth to Water (ft bgs)	Water Level Elevation (ft msl)	Vertical Hydraulic Gradient (foot/foot)
West Central Well Group (North side of Fault)											
MB-10	743347.83	535293	DE	6942.66	130	170	150	NM	NM	NM	- ⁴
LC18M	743368	535316	LFG	6948.97	290	332	311	10/25/2006	167.32	6781.65	-
LC19M	743383	535317	HJ	6950.02	412	463	438	10/25/2006	179.05	6770.97	0.08
LC20M	743383	535331	UKM	6950.52	511	543	527	10/25/2006	202.84	6747.68	0.26
MB-10	743347.83	535293	DE	6942.66	130	170	150	NM	NM	NM	-
LC18M	743368	535316	LFG	6948.97	290	332	311	6/27/2007	168.04	6780.93	-
LC19M	743383	535317	HJ	6950.02	412	463	438	6/27/2007	180.08	6769.94	0.09
LC20M	743383	535331	UKM	6950.52	511	543	527	6/27/2007	202.36	6748.16	0.24
MB-10	743347.83	535293	DE	6942.66	130	170	150	NM	NM	NM	-
LC18M	743368	535316	LFG	6948.97	290	332	311	11/21/2007	168.11	6780.86	-
LC19M	743383	535317	HJ	6950.02	412	463	438	11/21/2007	181.41	6768.60	0.10
LC20M	743383	535331	UKM	6950.52	511	543	527	11/21/2007	204.2	6746.31	0.25
MB-10	743347.83	535293	DE	6942.66	130	170	150	12/8/2008	168.75	6,773.91	-
LC18M	743368	535316	LFG	6948.97	290	332	311	12/8/2008	168.15	6,780.82	-0.04
LC19M	743383	535317	HJ	6950.02	412	463	438	12/8/2008	179.85	6,770.17	0.08
LC20M	743383	535331	UKM	6950.52	511	543	527	12/8/2008	201.69	6,748.83	0.24

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East Central Well Group (South of Fault)											
LC29M	744547	534837	DE	6937.55	140	164	152	10/25/2006	154.87	6,782.68	-
LCM15	744546	534823	LFG	6936.55	286	340	313	10/25/2006	160.34	6,776.21	0.04
LCM16	744562	534820	HJ	6936.15	410	467	438.5	10/25/2006	178.79	6,757.36	0.15
LCM17	744562	534840	UKM	6936.90	529	565	547	10/25/2006	185.34	6,751.56	0.05
LC29M	744547	534837	DE	6937.55	140	164	152	11/21/2007	155.14	6,782.41	-
LCM15	744546	534823	LFG	6936.55	286	340	313	11/21/2007	157.94	6,778.61	0.02
LCM16	744562	534820	HJ	6936.15	410	467	438.5	11/21/2007	178.78	6,757.37	0.17
LCM17	744562	534840	UKM	6936.90	529	565	547	11/21/2007	186.96	6,749.94	0.07
LC29M	744547	534837	DE	6937.55	140	164	152	12/8/2008	155.94	6,781.61	-
LCM15	744546	534823	LFG	6936.55	286	340	313	12/8/2008	158.06	6,778.49	0.02
LCM16	744562	534820	HJ	6936.15	410	467	438.5	12/8/2008	177.45	6,758.70	0.16
LCM17	744562	534840	UKM	6936.90	529	565	547	12/8/2008	185.03	6,751.87	0.06
West Well Group (South of Fault; Projected)											
LC30M	736276	532836	DE	6927.40	196	236	216	10/25/2006	199.02	6,728.38	-
LC21M	736277	532850	LFG	6927.13	375	398	387	10/25/2006	199.05	6,728.08	0.00
LC22M	736292	532850	HJ	6926.06	504	585	544.5	10/25/2006	206.66	6,719.40	0.06
LC23M	736292	532835	UKM	6926.80	595	630	612.5	10/25/2006	220.33	6,706.47	0.19
LC30M	736276	532836	DE	6927.40	196	236	216	12/8/2008	199.40	6,728.00	-
LC21M	736277	532850	LFG	6927.13	375	398	387	12/8/2008	198.78	6,728.35	0.00
LC22M	736292	532850	HJ	6926.06	504	585	544.5	12/8/2008	207.15	6,718.91	0.06
LC23M	736292	532835	UKM	6926.80	595	630	612.5	12/8/2008	221.00	6,705.80	0.19

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Northwest Well Group (North of Fault)											
MB-1	736245.85	535848.56	DE	6985.90	240	280	260	12/8/2008	233.01	6,752.89	-
MB-2	736301.85	535855.26	LFG	6986.92	410	450	430	12/8/2008	241.92	6,745.00	0.05
MB-3	736348.85	535849.86	HJ	6987.38	540	580	560	12/8/2008	259.00	6,728.38	0.13
MB-4	736395.85	535867.36	UKM	6987.27	630	660	645	12/8/2008	273.90	6,713.37	0.18
Southwest Well Group (South of Fault)											
LC31M	733380	524434	DE	6806.05	150	190	170	12/8/2008	143.65	6,662.40	-
MB-5	733337.91	524460.9	LFG	6805.04	305	325	315	12/8/2008	142.85	6,662.19	0.00
MB6	733380.91	524464.1	HJ	6804.90	380	405	392.5	12/8/2008	141.22	6,663.68	-0.02
LC28M	733364	524437	UKM	6805.56	502	557	529.5	12/8/2008	155.04	6,650.52	0.10
East Well Group (North of Fault; Projected)											
MB-7	753265.78	538975.75	DE	6984.88	80	125	102.5	11/17/2008	123.33	6,861.55	-
MB-8	753316.78	538979.75	LFG	6985.50	240	270	255	12/8/2008	167.19	6,818.31	0.28
MB-9	753280.78	539026.25	HJ	6986.32	340	370	355	12/8/2008	182.38	6,803.94	0.14
LC27M	753260	539018	UKM	6987.38	433	456	444.5	12/8/2008	191.15	6,796.23	0.09
Conoco Northeast Wells											
M-25-92-17-1S	745785	536224	LFG	6966.20	* ⁵	*	334	8/18/1982	*	6792.90	-
M-25-92-17-1M	745813	536223	HJ	6966.70	*	*	422	8/18/1982	*	6781.80	0.13
M-25-92-17-1D	745837	536222	UKM	6967.40	*	*	516	8/18/1982	*	6761.60	0.21

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Conoco Central Wells											
M-25-92-18-1S	742648	535513	LFG	6939.30	*	*	340	8/18/1982	*	6778.00	-
M-25-92-18-1M	742623	535515	HJ	6940.00	*	*	413	8/18/1982	*	6770.80	0.10
M-25-92-18-1D	742596	535517	UKM	6938.70	*	*	608	8/18/1982	*	6740.60	0.15
Conoco Southeast Wells											
M-25-92-20-1S	744998	534521	LFG	6934.50	*	*	341	8/18/1982	*	6776.40	-
M-25-92-20-1M	745023	534520	HJ	6934.90	*	*	388	8/18/1982	*	6758.90	0.37
M-25-92-20-1D	745048	534519	UKM	6935.00	*	*	522	8/18/1982	*	6751.80	0.05

¹ ft amsl - feet above mean sea level

² ft bgs - feet below ground surface

³ Vertical hydraulic gradient is calculated from middle of underreamed interval in overlying aquifer to middle of underreamed interval in underlying aquifer. A positive number indicates a downward potential.

⁴ Dash (-) indicates no overlying aquifer.

⁵ Asterisk (*) indicates values were not reported by HydroSearch, Inc (1982)