

Table D6-8 1982 and 2006 Pump Test Results

Well Identification	Completion Zone	Pumping Well	Under-Reamed Interval ⁶ (feet)	Pumping Rate (gpm)	Length of Test (hour:minute)	Maximum Drawdown (feet)	Transmissivity/Analytical Method						Average (ft ² /d)	Average Hydraulic Conductivity (ft/d)	Storativity
							Cooper Jacobs ⁷		Hantush		Jacob Recovery				
							(gpd/ft)	(ft ² /d)	(gpd/ft)	(ft ² /d)	(gpd/ft)	(ft ² /d)			
Multi-Well Tests															
LC16M ¹	HJ	LC16M	57	15	19:50	21.8	818	109.4			769	102.8	106.1	1.9	
LC19M 1st ²	HJ	LC19M	51	17.6 to 18.8	10:42	26.4	553	73.9			719	96.1	85.0	1.7	
LC19M 2nd ²	HJ	LC19M	51	17.6 to 18.8	25:30	29.1	590	78.9			773	103.3	91.1	1.8	
LC22M ³	HJ	LC22M	81	11.75	45:00	36.3	3007	402.0			1605	214.6	308.3	3.8	
M-25-92-19-1M	HJ	M-25-92-19-2M	~ 50	30	25:10	28.5	700	93.6	730	97.6	760	101.6	97.6	2.0	0.00084
M-25-92-19-2M	HJ	M-25-92-19-2M	~ 50	30	25:10	49	730	97.6	580	77.5	620	82.9	86.0	1.7	
M-25-92-19-3M	HJ	M-25-92-19-2M	~ 50	30	25:10	31.7	680	90.9	610	81.6	730	97.6	90.0	1.8	0.00033
M-25-92-20-1M ⁴	HJ	M-25-92-20-1M	~ 50	30	25:00	25	2000	267.4			1300	173.8	220.6	4.4	
Single Well Tests															
LC26M	HJ		55	13.6 to 14.3	1:09	9.7	1821	243.4						4.4	
LC27M 1st	UKM		23	12.8 to 13.0	2:05	12.5	1659	221.8						9.6	
LC27M 2nd ⁵	UKM		23	8.8	2:13	8.2	2013	269.1						11.7	
LC15M	LFG		54	14.2	1:50	32.1	302	40.4						0.7	
LC18M 1st	LFG		42	8.8 to 13.0	3:25	94	33	4.4						0.1	
LC18M 2nd	LFG		42	7.5 to 10	2:17	50.5	62	8.3						0.2	
LC21M	LFG		23	13.1	3:45	50.2	303	40.5						1.8	
LC25M	LFG		33	9.4 to 12.2	2:01	75	212	28.3						0.9	
LC17M	UKM		36	13	2:15	26	195	26.1						0.7	
LC20M	UKM		32	12 to 12.5	2:21	23.5	520	69.5						2.2	
LC23M	UKM		35	9.9	3:56	25	583	77.9						2.2	
LC24M	UKM		53	12.1	1:12	24	561	75.0						1.4	
LC29M	DE		40	0.67	0:31	10.3	10	1.3						0.0	
LC30M 1st	DE		40	2.7 to 3.3	5:02	13	231	30.9						0.8	
LC30M 2nd	DE		40	7	2:55	24	573	76.6						1.9	
LC31M	DE		40	7	1:34	14	1098	146.8						3.7	

¹ No significant response from the HJ observation wells LC19M (across the Fault 1,284 feet), LC22M (8,500 feet) or LC26M (3,640 feet) during the test.
² No significant response from the HJ observation wells LC16M (1,284 feet), LC22M (7,500 feet) or LC26M (4,850 feet), which are all located across the Fault, during the test.
³ No significant response from the HJ observation wells LC16M (8,502 feet) or LC28M (8,908 feet) or from LFG well LC21M (15 feet) or UKM well LC23M (15 feet) during the test.
⁴ No response from the overlying (M-25-92-20S) or underlying (M25-92-20-D) observation wells during the test.
⁵ The pump was shut off after 59 minutes for ten minutes; then the test was resumed.
⁶ The 50-foot under-reamed interval for wells M-25-92 was an estimate; these data were not provided in the Hydro-Search, Inc. report (1982).
⁷ Hydro Engineering (2007) reported early and late time values for Cooper Jacobs analytical methods; only late time data results are shown here.
Late time data provides better representation, as much of the early time data is impacted by casing storage and later time data shows effects of the Fault.