

**EXHIBIT B. PERTINENT DATA OF PROJECT AFFECTING  
MATHEWS CANYON DAM**

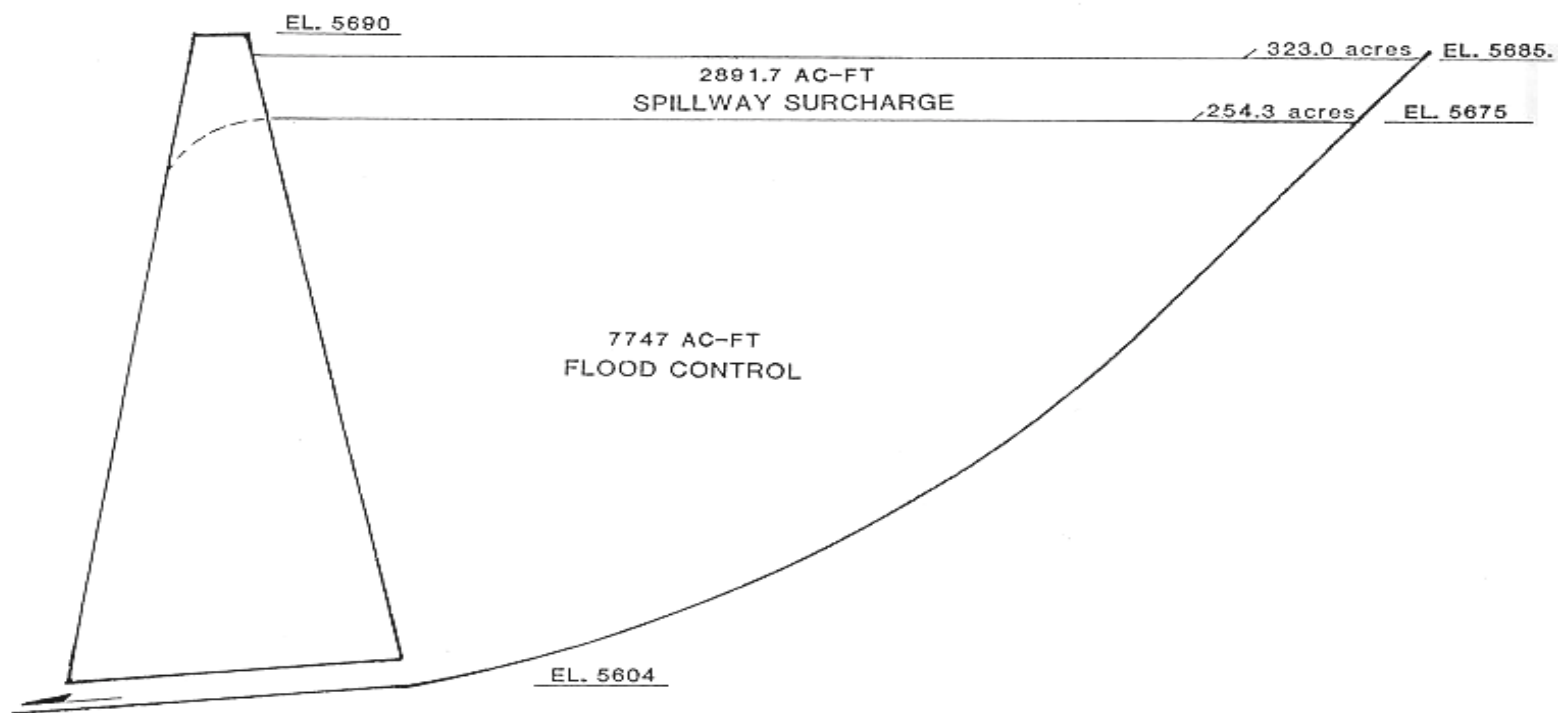
PINE CANYON DAM AND RESERVOIR  
LINCOLN COUNTY, NEVADA

PERTINENT DATA  
MAY 1983

Stream System.....	Clover Creek	
Drainage Area.....sq.mi..		45
Reservoir:		
Elevation		
Streambed at dam.....ft., m.s.l..		5,604
Flood control pool (spillway crest).....ft., m.s.l..		5,675
Spillway design surcharge level.....ft., m.s.l..		5,685.1
Top of Dam.....ft., m.s.l..		5,690.0
Area		
Spillway crest.....acres.,		254.3
Spillway design surcharge level.....acres..		323.0
Top of dam.....acres..		362.5
Capacity, gross		
Spillway crest.....acre-ft..	7,747 (3.23*)	
Spillway design surcharge level.....acre-ft..	10,638.7 (4.43*)	
Top of Dam.....acre-ft..	12,328.5 (5.14*)	
Allowance for sediment (50 year).....acre-ft..	1,400 (0.58*)	
Dam: - Type.....	Earthfill	
Height above original streambed.....ft..		92
Top length.....ft..		884
Top width.....ft..		20
Freeboard.....ft..		4.9
Spillway: - Type.....	Ungated, Crest-Block	
Crest length.....ft..		330
Design surcharge.....ft..		10.1
Design discharge.....c.f.s..		31,700
Outlets conduit:		
Invert elevation.....ft., m.s.l..		5,604
Diameter.....ft..		3.5
Length.....ft..		479
Maximum capacity at spillway crest.....c.f.s..		322
Outlet channel (unlined):		
Length.....ft..		150
Capacity.....c.f.s..		340
Reservoir design flood:		
Duration (inflow).....Days..		3
Total volume.....acre-ft..	7,300 (3.04*)	
Inflow peak.....c.f.s..		10,500
Spillway design flood:		
Duration (inflow).....Days..		1
Total volume.....acre-ft..	18,000 (7.50*)	
Inflow peak.....c.f.s..		68,000
Historic maximums:		
Maximum release.....c.f.s..		303
Date.....		3-3-78
Maximum water surface elevation.....ft., m.s.l..		5639.4
Date.....		3-5-78

\*inches of runoff

# PINE CANYON RESERVOIR, NEVADA



PINE CANYON DAM

ELEVATION IN FEET VS STORAGE IN ACRE-FEET

ELEV	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
5604	0.0	0.0	0.1	0.1	0.2	0.4	0.5	0.7	1.0	1.2
5605	1.5	1.8	2.1	2.5	2.7	3.3	3.7	4.2	4.6	5.1
5606	5.7	6.2	6.8	7.4	8.0	8.6	9.3	10.0	10.7	11.4
5607	12.1	12.9	13.7	14.5	15.4	16.2	17.1	18.1	19.0	20.0
5608	20.9	21.9	23.0	24.0	25.1	26.2	27.3	28.5	29.7	30.8
5609	32.1	33.3	34.6	35.8	37.2	38.5	39.8	41.2	42.6	44.1
5610	45.5	47.0	48.5	50.0	51.5	53.1	54.7	56.3	57.9	59.6
5611	61.3	63.0	64.7	66.5	68.3	70.1	71.9	73.8	75.6	77.5
5612	79.5	81.4	83.4	85.4	87.4	89.4	91.5	93.6	95.7	97.8
5613	100.0	102.2	104.4	106.6	108.9	111.2	113.5	115.8	118.2	120.5
5614	122.9	125.4	127.8	130.3	132.8	135.3	137.8	140.4	143.0	145.6
5615	148.2	150.9	153.6	156.3	159.1	161.8	164.6	167.4	170.3	173.2
5616	176.0	179.0	181.9	184.9	187.9	190.9	194.0	197.1	200.2	203.3
5617	206.4	209.6	212.8	216.1	219.3	222.6	225.9	229.3	232.6	236.0
5618	239.4	242.9	246.4	249.9	253.4	256.9	260.5	264.1	267.7	271.4
5619	275.0	278.8	282.5	286.2	290.0	293.8	297.7	301.5	305.4	309.3
5620	313.2	317.2	321.2	325.2	329.3	333.4	337.5	341.6	345.8	350.0
5621	354.2	358.5	362.7	367.1	371.4	375.8	380.2	384.6	389.0	393.5
5622	398.0	402.6	407.2	411.8	416.4	421.1	425.8	430.5	435.2	439.9
5623	444.8	449.6	454.5	459.4	464.3	469.3	474.2	479.3	484.3	489.4
5624	494.4	499.6	504.7	509.9	515.1	520.4	525.6	530.9	536.3	541.6
5625	547.0	552.4	557.9	563.3	568.8	574.4	579.9	585.5	591.2	596.8
5626	602.5	608.2	614.0	619.7	625.5	631.4	637.2	643.1	649.1	655.0
5627	661.0	667.0	673.1	679.1	685.2	691.4	697.5	703.7	710.0	716.4
5628	722.5	728.8	735.2	741.5	747.9	754.4	760.8	767.3	773.9	780.4
5629	787.0	793.6	800.3	806.9	813.6	820.4	827.1	833.9	840.8	847.6
5630	854.5	861.4	868.4	875.3	882.3	889.4	896.4	903.5	910.7	917.8
5631	925.0	932.2	939.5	946.7	954.0	961.4	968.7	976.1	983.6	991.0
5632	998.5	1006.0	1013.6	1021.1	1028.7	1036.4	1044.0	1051.7	1059.4	1067.2
5633	1075.0	1082.8	1090.7	1098.5	1106.4	1114.4	1122.3	1130.3	1138.4	1146.4
5634	1154.5	1162.6	1170.8	1178.9	1187.1	1195.4	1203.6	1211.9	1220.3	1228.6
5635	1237.0	1245.4	1253.9	1262.4	1270.9	1279.4	1288.0	1296.7	1305.3	1314.0
5636	1322.7	1331.5	1340.3	1349.2	1358.0	1366.9	1375.9	1384.9	1393.9	1402.9
5637	1412.0	1421.1	1430.3	1439.5	1448.7	1457.9	1467.2	1476.6	1485.9	1495.3
5638	1504.7	1514.2	1523.7	1533.3	1542.8	1552.4	1562.1	1571.8	1581.5	1591.2
5639	1601.0	1610.8	1620.7	1630.6	1640.5	1650.4	1660.4	1670.5	1680.5	1690.6
5640	1700.7	1710.9	1721.1	1731.4	1741.6	1752.0	1762.3	1772.7	1783.1	1793.6
5642	1911.1	1922.1	1933.0	1944.0	1955.0	1966.1	1977.2	1988.3	1999.5	2010.7
5644	2136.3	2148.0	2159.7	2171.4	2183.2	2195.0	2206.8	2218.7	2230.6	2242.5
5646	2376.4	2388.8	2401.2	2413.7	2426.2	2438.8	2451.4	2464.0	2476.7	2489.4
5648	2631.6	2644.8	2658.0	2671.2	2684.5	2697.8	2711.1	2724.5	2737.9	2751.4
5650	2902.0	2915.9	2929.9	2943.9	2957.9	2972.0	2986.1	3000.3	3014.5	3028.7
5652	3188.0	3202.7	3217.5	3232.3	3247.1	3262.0	3276.9	3291.9	3306.9	3321.9
5654	3490.0	3506.5	3523.1	3539.7	3556.3	3573.0	3589.7	3606.5	3623.3	3640.1
5656	3808.1	3824.5	3840.9	3857.3	3873.8	3890.3	3906.9	3923.5	3940.2	3956.9
5658	4143.3	4160.6	4177.8	4195.1	4212.5	4229.8	4247.3	4264.7	4282.2	4299.8
5660	4495.7	4513.8	4531.9	4550.1	4568.3	4586.6	4604.9	4623.3	4641.7	4660.1
5662	4866.1	4885.2	4904.2	4923.3	4942.5	4961.7	4980.9	5000.2	5019.6	5039.0
5664	5255.3	5275.3	5295.3	5315.4	5335.4	5355.6	5375.8	5396.0	5416.3	5436.6
5666	5663.5	5684.4	5705.4	5726.4	5747.5	5768.6	5789.8	5811.0	5832.3	5853.6
5668	6091.5	6113.4	6135.4	6157.4	6179.5	6201.6	6223.8	6246.0	6268.3	6290.6
5670	6539.5	6562.4	6585.4	6608.4	6631.5	6654.6	6677.8	6701.0	6724.3	6747.6
5672	7007.5	7031.4	7055.4	7079.4	7103.5	7127.6	7151.8	7176.0	7200.3	7224.6
5674	7495.5	7520.4	7545.4	7570.4	7595.5	7620.6	7645.8	7671.0	7696.3	7721.6
5676	8004.0	8030.0	8056.1	8082.3	8108.5	8134.7	8161.1	8187.5	8213.9	8240.4
5678	8536.0	8563.2	8590.5	8617.9	8645.3	8672.7	8700.3	8727.9	8755.5	8783.2
5680	9092.0	9120.4	9149.0	9177.5	9206.2	9234.9	9263.8	9292.7	9321.6	9350.7
5682	9675.1	9705.1	9735.1	9765.2	9795.4	9825.6	9856.0	9886.4	9916.8	9947.4
5684	10288.5	10319.9	10351.5	10383.1	10414.8	10446.5	10478.4	10510.3	10542.3	10574.4
5686	10932.8	10965.9	10999.2	11032.5	11065.9	11099.4	11133.0	11166.6	11200.4	11234.2
5688	11612.6	11647.5	11682.5	11717.7	11752.9	11788.2	11823.6	11859.0	11894.6	11930.3
5690	12328.5									

SURVEY DATE AUGUST 1977

