APPENDIX C

MONITORING WELL CONSTRUCTION DETAILS

TABLE C-1
Groundwater Sampling Point Location Information
Groundwater Remedial Investigation Report
Del Amo Study Area

			Location Information				Cross Reference Information				
Location	HSU [a]	Installation Date	Land Surface Elevation (feet MSL)	Measuring Point Elevation (feet MSL)	Easting	Northing	Site-wide Cross-section Reference	Co-located Wells within 100' Radius [b]	D&M Lithologic Soil Boring Reference (App. B)	Soil Boring's Distance from Well (feet)	Comments
SWL0001	WT/MBFB	10/14/92	40.93	41.34	198179	58303	KK'		SWL0001	0	
SWL0002	WT/MBFB	10/15/92	39.82	40.26	198099	58294			SWL0002	0	
SWL0003	WT/MBFB	10/16/92	41.01	41.49	198122	58421			SWL0003	0	
SWL0004	WT/MBFB	10/19/92	41.85	42.36	198208	58264			SWL0004	0	
SWL0005	WT	1/29/93	29.37	29.82	199909	56422	HH', KK'	XP-03	SWL0005	0	
SWL0006	WT	2/1/93	26.50	26.95	198960	56017		XBF-23, XG-12	SWL0006	0	
SWL0007	WT	4/5/93	41.26	41.81	198032	59774			SBL0030	125	
SWL0008	WT	4/7/93	32.47	32.85	198858	56459	BB', GG', KK'		SBL0055	117	
SWL0009	WT	5/18/93	22.57	23.14	201895	57040	FF'	SWL0010, SWL0025	SBL0051	4	
SWL0010	MBFB	6/23/93	22.77	23.22	201895	57048	FF'	SWL0009, SWL0025	SBL0051	9	
SWL0011	MBFB	6/24/93	33.56	34.12	200092	56855	AA', CC'	SWL0013, SWL0022	SBL0052	19	
SWL0012	WT	6/16/93	34.66	35.41	199887	59654	FF'		CWL0038	60	
SWL0013	MBFC	7/2/93	33.46	34.01	200105	56856	AA', CC'	SWL0011, SWL0022	SBL0052	19	
SWL0014	MBFC	7/20/93	23.42	20.50	200444	55846	HH'	SWL0043, XDA-1B	SBL0053	7	
SWL0015	WT	7/14/93	23.91	21.30	201068	55863	AA', JJ'	SWL0019, SWL0020	SBL0054	10	
SWL0016	WT	7/16/93	33.20	33.80	199550	57706	AA'	SWL0034, SWL0035, SWL0036	SBL0081	22	
SWL0017	WT	7/20/93	36.54	37.20	199590	58727	BB'		SBL0013	8	
SWL0018	MBFC	7/26/93	34.12	35.00	199408	56862	BB', HH'	PZL0018	SBL0059	15	
SWL0019	MBFB	8/3/93	23.75	21.20	201055	55859	AA', JJ'	SWL0015, SWL0020	SBL0054	24	
SWL0020	GAGE	8/15/93	23.73	21.20	201040	55853	AA', JJ'	SWL0015, SWL0019	SBL0054	40	
SWL0021	WT	9/9/93	28.46	29.26	200749	56079	AA'		SWL0021	0	
SWL0022	GAGE	9/8/93	33.41	34.11	200118	56856	AA', CC'	SWL0011, SWL0013	SBL0052	27	
SWL0023	MBFB	9/2/93	27.58	28.21	201017	56419	JJ', KK'	SWL0024	SBL0028	124	
SWL0024	WT	8/31/93	27.57	28.12	201031	56417	JJ', KK'	SWL0023	SBL0028	110	
SWL0025	GAGE	9/21/93	22.43	23.18	201895	57058	FF'	SWL0009, SWL0010	SBL0051	18	
SWL0026	GAGE	10/20/93	22.45	23.15	200260	54982	CC', GG'	SWL0027, SWL0028	SBL0077	0	
SWL0027	MBFC	10/18/93	22.16	23.01	200255	54973	CC', GG'	SWL0026, SWL0028	SBL0077	10	

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SWL0028	WT	10/29/93	22.35	22.95	200267	54978	CC', GG'	SWL0026, SWL0027	SBL0077	8	
SWL0029	MBFB	11/20/93	42.70	43.46	197952	58830	AA', EE', GG'	PZL0016, SWL0030, SWL0031	SBL0078	20	
SWL0030	MBFC	11/22/93	42.51	43.37	197954	58838	AA', EE', GG'	PZL0016, SWL0029, SWL0031	SBL0078	12	
SWL0031	GAGE	11/29/93	42.44	43.40	197954	58850	AA', EE', GG'	PZL0016, SWL0029, SWL0030	SBL0078	0	
SWL0032	MBFB	12/13/93	41.71	42.31	198261	58275	GG'		SBL0079	0	
SWL0033	MBFC	1/7/94	35.72	36.32	198563	56169	BB', CC'	SWL0034	SBL0080	14	
SWL0034	GAGE	1/11/94	35.49	36.20	198562	56183	BB', CC'	SWL0033	SBL0080	0	
SWL0035	MBFC	2/2/94	32.41	33.08	199570	57696	AA'	SWL0016, SWL0036, SWL0037	SBL0081	21	
SWL0036	GAGE	2/9/94	32.43	33.21	199553	57684	AA'	SWL0016, SWL0035, SWL0037	SBL0081	0	
SWL0037	MBFB	2/3/94	33.17	33.55	199562	57710	AA'	SWL0016, SWL0035, SWL0036	SBL0081	28	
SWL0038	WT	2/17/94	38.66	39.08	198309	59754			SBL0082	0	
SWL0039	WT	2/24/94	37.48	38.15	198877	59779			SBL0083	0	
SWL0040	MBFC	3/8/94	33.78	34.60	199556	56521	HH', KK'	PZL0022, SWL0041	SBL0084	1	
SWL0041	MBFB	3/8/94	34.14	34.45	199581	56520	HH', KK'	PZL0022, SWL0040	SBL0084	25	
SWL0042	WT	6/21/94	24.30	25.18	201223	55467	JJ'		SBL0095	0	
SWL0043	MBFC	7/1/94	22.41	20.40	200416	55840	HH'	SWL0014, XDA-1B	SBL0053	35	
SWL0044	WT	5/19/95	37.91	36.38	199263	56760			PZL0023	0	
SWL0045	WT	8/9/95	40.22	40.96	199382	60293			SBL0098	0	
SWL0046	WT	8/11/95	28.90	29.54	200635	57893			SBL0100	0	
SWL0047	MBFB	8/28/95	36.03	36.62	198870	58029	HH'		SBL0097	72	
SWL0048	MBFB	8/15/95	36.31	36.90	199099	57234	HH'		SBL0101	10	
SWL0049	WT/MBFB	9/8/95	32.50	33.16	197520	56202			SBL0104	19	
SWL0050	MBFB	9/15/95	37.54	35.30	199003	56528	GG', KK'	SWL0055	SBL0103	10	
SWL0051	WT	9/14/95	25.93	26.56	198993	56214	GG'		SBL0105	0	
SWL0052	MBFB	9/29/95	23.44	23.44	199976	56143	HH'	SWL0053	SBL0106	12	

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SWL0053	MBFC	9/29/95	23.19	23.19	199976	56131	HH'	SWL0052	SBL0106	24	
SWL0054	MBFC	10/20/95	39.92	40.60	198368	57720	GG'		SBL0099	77	
SWL0055	MBFC	10/26/95	37.29	37.90	199016	56529	GG', KK'	SWL0050	SBL0103	23	
SWL0056	MBFB	11/3/95	28.59	29.39	199614	55487	GG'	SWL0057, XBF-10, XG-09	SBL0107	7	
SWL0057	WT	11/1/95	28.31	28.97	199614	55500	GG'	SWL0056, XBF-10, XG-09	SBL0107	6	
SWL0058	MBFC	11/21/95	40.53	38.52	198525	56928	GG'		SBL0108	10	
PZL0001	WT	3/23/93	24.66	25.02	201332	56548	JJ'		CWL0031	0	
PZL0002	WT	3/24/93	36.91	37.36	199806	60571			CWL0036	0	
PZL0003	WT	3/25/93	44.06	43.56	198023	60775	FF'		SBL0027	407	
PZL0004	WT	3/26/93	33.45	32.45	199869	57770			CWL0016	0	Also see SBL0081 located 327 feet west.
PZL0005	WT	3/29/93	23.41	23.65	201301	59100	JJ'		SBL0025	4	
PZL0006	WT	3/31/93	34.55	34.93	199252	58290			PZL0006	0	
PZL0007	WT	4/1/93	19.47	19.72	201301	57834	JJ'		SBL0019	91	
PZL0008	WT	4/2/93	34.27	34.74	199706	59421			CWL0039	0	
PZL0009	WT	4/19/93	40.82	41.25	198809	58703			PZL0009	0	
PZL0010	WT	4/20/93	34.94	35.45	199831	58757	BB'		PZL0010	0	
PZL0011	WT	4/21/93	25.76	26.11	200949	57567	CC', JJ'		PZL0011	0	
PZL0012	WT	4/26/93	29.69	30.17	200641	57196	CC'		PZL0012	0	
PZL0013	WT	4/27/93	30.57	30.87	200652	56764			PZL0013	0	
PZL0014	WT	4/28/93	35.28	35.71	198588	59441			PZL0014	0	
PZL0015	WT	4/29/93	37.84	38.37	198613	59734	EE'		PZL0015	0	
PZL0016	WT	4/30/93	37.49	37.78	198018	58798	GG'	SWL0029, SWL0030, SWL0031	PZL0016	0	
PZL0017	WT	5/1/93	39.44	39.85	198955	60347	FF'		PZL0017	0	
PZL0018	WT	5/19/93	34.24	34.77	199422	56828	HH'	SWL0018	PZL0018	0	Also see SBL0059
PZL0019	WT	5/20/93	38.40	38.54	198708	56705			PZL0019	0	Also see SBL0057, SBL0064
PZL0020	WT	5/22/93	36.98	37.16	198868	56574	KK'		PZL0020	0	Also see SBL0055, SBL0103

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PZL0021	WT/MBFB	6/14/93	39.29	39.95	198287	57137	BB'		PZL0021	0	
PZL0022	WT	6/15/93	32.28	34.63	199568	56521	HH', KK'	SWL0040, SWL0041	PZL0022	0	
PZL0023	WT	8/5/93	36.16	36.38	199263	56760			PZL0023	0	Damaged, replaced by SWL0044
PZL0024	WT	8/9/93	33.94	34.21	199338	56521	KK'		PZL0024	0	
PZL0025	WT	8/11/93	36.23	36.64	198616	56529	KK'		PZL0025	0	
PZL0026	WT	9/20/93	28.60	28.90	200965	56878	JJ'		PZL0026	0	
XBF-01	MBFC	12/11/86	48.36	48.63	196346	57478					
XBF-02	MBFC	12/9/86	49.54	49.85	196713	57054		XG-03			
XBF-03	MBFC	12/5/86	48.30	48.74	196994	57361					
XBF-04	MBFC	12/8/86	47.74	48.12	197012	57096					
XBF-05	MBFC	1/14/89	39.34	40.58	197815	57220		XMW-12, XG-04			
XBF-06	MBFC	1/14/89	41.60	42.80	197723	56796	BB'				
XBF-07	MBFC	12/9/88	42.47	42.35	197466	56517	BB', KK'	XLW-04, XG-06, XMW-14	SBL0020		
XBF-09	MBFC	1/3/89	48.77	49.94	196759	57326	DD'				
XBF-10	MBFC	12/1/89	28.73	29.95	199614	55457	DD', GG'	SWL0056, SWL0057, XG-09			
XBF-12	MBFC	11/30/89	22.29	23.47	199886	53998	DD'	XMW-12, XG-04			
XBF-13	MBFC	11/1/89	29.55	30.34	199707	56474	HH', KK'	XG-11			
XBF-14	MBFC	10/4/89	36.32	37.28	198577	55655					
XBF-15	MBFC	10/10/89	22.47	23.54	197964	55531	CC'	XG-8, XMW-24			
XBF-17	MBFC	12/18/89	23.78	23.78	199531	53712					
XBF-18	MBFC	8/2/91	50.44	51.44	196366	58108		XG-10			
XBF-19	MBFC	6/26/91	40.43	41.28	197846	57936		XMW-27, XG-14, XLW-03			
XBF-21	MBFC	5/24/91	39.73	40.55	197207	54672					
XBF-23	MBFC	6/17/91	25.93	26.74	198961	56000	DD'	SWL0006, XG-12			
XBF-24	MBFC	5/17/91	31.62	32.39	198692	54385					
XBF-29	MBFC	8/6/91	39.71	40.61	196566	54153					

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XDA-1B	GAGE	9/29/88	23.89	20.90	200434	55845					
XG-01	GAGE	11/26/86	46.71	47.14	196616	57568		XMW-04, XLW-05			
XG-02	GAGE	11/16/86	43.50	43.79	197192	56975		XMW-01, XLG-01			Reference Hargis & Associates, XEB-02, XEB-02A
XG-03	GAGE	12/1/86	49.74	49.98	196676	57054					
XG-04	GAGE	1/17/89	39.69	40.44	197828	57221	DD'	XMW-12, XBF-05			
XG-05	GAGE	12/7/88	41.76	42.85	197705	56795	BB'	XMW-13, XBF-6, XLW-02			
XG-06	GAGE	12/12/88	42.56	43.29	197484	56517	BB', KK'	XLW-04, XBF-07, XMW-14	SBL0020		
XG-08	GAGE	12/13/89	22.86	23.87	197974	55531	CC'	XBF-15, XMW-24			
XG-09	GAGE	12/4/89	28.55	29.67	199614	55471	DD', GG'	SWL0056, SWL0057, XBF-10	SBL0107		
XG-10	GAGE	7/29/91	49.00	49.96	196470	57900		XBF-18			
XG-11	GAGE	11/4/89	29.49	30.41	199717	56474	HH', KK'	XBF-13			
XG-12	GAGE	10/21/89	25.96	26.95	198949	56036	DD'	SWL0006, XBF-23			
XG-13	GAGE	10/7/89	36.13	37.22	198577	55679		XMW-23, XBF-14			
XG-14	GAGE	8/30/91	40.51	41.38	197808	57930		XMW-27, XBF-19, XLW-03			
XG-15	GAGE	8/9/91	46.86	49.47	196518	56648					
XG-16	GAGE	6/6/91	37.14	38.17	197573	55518	CC'	XMW-26			
XG-17	GAGE	6/29/91	35.95	37.05	198833	56815					
XG-18	GAGE	5/30/91	21.83	22.67	199764	54732					
XG-19	GAGE	7/25/91	31.95	32.85	198964	54642					
XGW-07A	WT	2/6/90	25.40	25.85	201784	56307					
XGW-07C	MBFB	1/26/90	25.36	25.96	201779	56298					
XLG-01	GAGE	11/12/86	43.33	43.61	197192	56924					
XLG-02	GAGE	12/21/88	44.63	45.27	196899	57204					
XLW-01	LW	8/24/89	44.82	45.51	196897	57220	DD'	XLG-02			
XLW-02	LW	8/31/89	41.95	42.69	197763	56806	BB'	XMW-13, XBF-06, XG-05			Reference Hargis & Associates, XEB-04

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XLW-03	LW	11/18/89	40.34	41.42	197827	57929		XMW-27, XBF-19, XG-14			
XLW-04	LW	9/9/91	42.72	42.46	197393	56511	BB', KK'	XG-06, XBF-07, XMW 14	SBL0020		Reference Hargis & Associates, XEB-05
XLW-05	LW	9/17/91	46.26	47.09	196644	57573		XMW-04, XG-01			
XLW-06	LW	9/21/91	44.26	45.33	197200	57466		XMW-05			
XLW-07	LW	9/24/91	48.68	49.60	196695	57073		XBF-02, XG-03			
XMW-01HD	WT	8/6/90	30.86	31.27	200693	56718					
XMW-02HD	WT	7/31/90	30.57	30.81	200789	56715					
XMW-03HD	WT	7/31/90	29.90	30.15	200779	56623					
XMW-04HD	WT	1/21/91	29.93	30.66	200684	56576					
XMW-01T	WT/MBFB	7/28/87	41.36	41.77	197965	58543					
XMW-02T	WT/MBFB	3/29/88	42.26	42.76	197845	58641					
XMW-01	WT/MBFB	4/26/85	42.77	43.07	197186	56887		XG-02, XLG-01			
XMW-02	WT/MBFB	4/27/85	48.77	48.90	196726	57290	DD'	XBF-09, XLW-01			
XMW-03	WT/MBFB	4/26/85	47.66	47.91	196252	57308					
XMW-04	WT/MBFB	4/26/85	47.08	47.18	196634	57559		XG-01, XLW-05			
XMW-05	WT/MBFB	4/25/85	45.16	45.46	197199	57488		XLW-06			
XMW-06	WT/MBFB	11/17/88	45.72	47.54	196713	56791					
XMW-09	WT/MBFB	5/9/89	48.76	49.28	196877	57820					Reference Hargis & Associates, XEB-09
XMW-10	WT/MBFB	11/22/88	43.21	44.12	197452	57930					
XMW-11	WT/MBFB	11/23/88	42.66	43.42	197406	57208					
XMW-12	WT/MBFB	11/19/88	40.05	40.87	197806	57208	DD'	XBF-05, XG-04			
XMW-13	WT/MBFB	11/15/88	42.35	42.90	197737	56797	BB'	XBF-06, XG-05, XLW 02			Reference Hargis & Associates, XEB-04
XMW-14	WT/MBFB	11/21/88	43.02	42.57	197449	56517	BB', KK'	XLW-04, XG-06, XBF 07	SBL0020		Reference Hargis & Associates, XEB-05
XMW-16	WT/MBFB	3/31/90	41.30	42.02	196283	55732					
XMW-19	WT/MBFB	3/30/90	46.64	47.40	197174	58414					

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XMW-20	WT/MBFB	4/4/90	43.08	41.70	198150	58349					
XMW-21	WT/MBFB	3/28/90	36.56	37.47	198500	57798	BB'				
XMW-22	WT/MBFB	4/1/90	41.94	42.33	196753	55480					
XMW-23	WT	8/3/89	36.40	37.15	198601	55675		XBF-14, XG-13			Reference Hargis & Associates, XEB-11
XMW-24	WT	8/4/89	22.45	23.12	197953	55531	CC'	XG-8, XBF-15			
XMW-25	WT	8/5/89	32.01	32.43	198207	54731					
XMW-26	WT/MBFB	8/6/89	39.22	40.01	197403	55491	CC'	XG-16			
XMW-27	WT/MBFB	9/19/91	40.56	41.24	197861	57935		XBF-19, XG-14, XLW 03			
XMW-28	WT/MBFB	11/16/91	39.65	40.25	198370	57550	BB'				
XMW-29	WT/MBFB	9/18/91	38.91	39.36	198349	56813					
XMW-30	WT/MBFB	9/20/91	37.48	37.87	198216	56157					
XP-02	WT/MBFB	10/9/86	35.31	36.03	199181	56877					
XP-03	MBFB	1/1/04	29.32	29.82	199902	56422					

[a] Hydrostratigraphic Unit in which well is screened: WT = Water Table MBFB = middle Bellflower B-sand; MBFC = middle Bellflower C-sand; GAGE = Gage aquifer.

[b] If colocated wells column is blank, there are no wells within 100 feet.

Table C-2
Groundwater Sampling Point Construction Information - Current Study
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Location	HSU [a]	Total Depth Drilled	Total Depth of Well	Conductor Casing			Well Casing					Annular Materials					
				24" Steel Conductor Casing [b]	16" Steel Conductor Casing [c]	11" Steel Conductor Casing [d]	Blank Well Casing		Well Screen		Well Screen Slot Size	Filter Pack		Bentonite Seal Interval	Backfill		Concrete Surface Seal [e]
		(ft bgs)	(ft bgs)	Depth (ft bgs)	Depth (ft bgs)	Depth (ft bgs)	Type	Depth (ft bgs)	Type	Depth (ft bgs)	(inches)	Type	Depth (ft bgs)	Depth (ft bgs)	Type	Depth (ft bgs)	Depth (ft bgs)
SWL0001	WT/MBFB	79.5	77.5				4 in. PVC	0 - 52.5	SS	52.5 - 77.5	0.02	#1C Sand	48.5 - 79.5	46 - 48.5	Volcla	0.3 - 46	0-2
SWL0002	WT/MBFB	78.8	78.8				4 in. PVC	0 - 52	SS	52 - 77	0.02	#1C Sand	48.5 - 79.5	45 - 48.5	Volcla	0.3 - 45	0-2
SWL0003	WT/MBFB	78.5	78				4 in. PVC	0 - 50	SS	50 - 77	0.01	#1C Sand	46.5 - 78.5	44 - 46.5	Volcla	0.3 - 44	0-2
SWL0004	WT/MBFB	80	80				4 in. PVC	0 - 53	SS	53 - 80	0.01	#1C Sand	49 - 80	46 - 49	Volcla	0.3 - 46	0-2
SWL0005	WT	62.5	62				4 in. PVC	0 - 38.6	SS	38.6 - 61.5	0.02	#1C Sand	35.9 - 64	33.8 - 35.9	Volcla	0 - 33.8	0-2
SWL0006	WT	60.9	60				4 in. PVC	0 - 43.5	SS	43.5 - 59.5	0.01	#1C Sand	42.6 - 60.9	41 - 42.6	Volcla	0 - 41	0-2
SWL0007	WT	73	72				4 in. PVC	0 - 50.4	SS	50.4 - 71.2	0.01	#1C Sand	48.9 - 73	47 - 48.9	Volcla	0 - 47	0-2
SWL0008	WT	63	62.8				4 in. PVC	0 - 41.4	SS	41.4 - 62	0.01	#1C Sand	39 - 63	36.4 - 39	Volcla	0 - 36.4	0-2
SWL0009	WT	60	59				4 in. PVC	0 - 37.3	SS	37.3 - 58.3	0.01	#1C Sand	35 - 60	33.5 - 35	Volcla	0 - 33.5	0-2
SWL0010	MBFB	120	117			0 - 94	4 in. PVC	0 - 100	SS	100 - 116.5	0.01	#1C Sand	98.6 - 120	95.8 - 98.6	Volcla	0 - 95.8	0-2
SWL0011	MBFB	110.5	109			0 - 85	4 in. PVC	0 - 92	SS	92 - 108.6	0.01	#1C Sand	89.3 - 110.5	87.5 - 89.3	Volcla	0 - 87.5	0-2
SWL0012	WT	63.5	63.3				4 in. PVC	0 - 41.2	SS	41.2 - 62.5	0.01	#1C Sand	39 - 63.5	36 - 39	Volcla	0 - 36	0-2
SWL0013	MBFC	150.5	148			0 - 85	4 in. PVC	0 - 131.8	SS	131.8 - 147.6	0.01	#1C Sand	129.8 - 150.5	128 - 129.8	Volcla	0 - 128	0-2
SWL0014	MBFC	133	131.2		0 - 30	0 - 72	4 in. PVC	0 - 113.8	SS	113.8 - 130.8	0.01	#1C Sand	111.8 - 133	109.8 - 111.8	Volcla	0 - 109.8	0-2
SWL0015	WT	56.5	54.5				4 in. PVC	0 - 33	SS	33 - 54	0.01	#1C Sand	32 - 56.5	31 - 32	Volcla	0 - 31	0-2
SWL0016	WT	64	62.8				4 in. PVC	0 - 40.8	SS	40.8 - 62	0.01	#1C Sand	39 - 64	37 - 39	Volcla	0 - 37	0-2
SWL0017	WT	70	69				4 in. PVC	0 - 47	SS	47 - 68.5	0.01	#1C Sand	46 - 70	44 - 46	Volcla	0 - 44	0-2
SWL0018	MBFC	141	139.5			0 - 74	4 in. PVC	0 - 122	SS	122 - 139	0.01	#1C Sand	121.5 - 141	117 - 121.5	Volcla	0 - 117	0-2
SWL0019	MBFB	90.6	90.1		0 - 33	0 - 64	4 in. PVC	0 - 73.1	SS	73.1 - 89.6	0.01	#1C Sand	71.7 - 90.6	69 - 71.7	Volcla	0 - 69	0-2
SWL0020	GAGE	197.5	197.2		0 - 32	0 - 175	4.5 in. PVC	0 - 180.6	SS	180.6 - 196.4	0.01	#1C Sand	179.5 - 197.5	177 - 179.5	Volcla	0 - 177	0-2
SWL0021	WT	63	62.8			0 - 45	4 in. PVC	0 - 46.5	SS	46.5 - 62.1	0.01	#1C Sand	46 - 64	42.5 - 46	Volcla	0 - 42.5	0-2
SWL0022	GAGE	197	196		0 - 85	0 - 171	4.5 in. PVC	0 - 179.5	SS	179.5 - 195.3	0.01	#1C Sand	177.5 - 197	173 - 177.5	Volcla	0 - 173	0-2
SWL0023	MBFB	107	103.8			0 - 85	4 in. PVC	0 - 88.5	SS	88.5 - 103.8	0.01	#1C Sand	87.3 - 107	83.4 - 87.3	Volcla	0 - 83.4	0-2
SWL0024	WT	63	63				4 in. PVC	0 - 45	SS	45 - 61.5	0.01	#1C Sand	44 - 63	41 - 44	Volcla	0 - 41	0-2
SWL0025	GAGE	222	222		0 - 94	0 - 151	4.5 in. PVC	0 - 195	SS	195 - 210.8	0.02	#1C Sand	190.5 - 213.2	186.5 - 190.5	Volcla	0 - 186.5	0-2
SWL0026	GAGE	178	176.3		0 - 59	0 - 124	4.5 in. PVC	0 - 159.8	SS	159.8 - 175.5	0.01	#1C Sand	156.9 - 178	153.7 - 156.9	Volcla	0 - 153.7	0-2
SWL0027	MBFC	137	135.5			0 - 59	4 in. PVC	0 - 119.3	SS	119.3 - 135	0.01	#1C Sand	114 - 137	108 - 114	Volcla	0 - 108	0-2
SWL0028	WT	57	55.5				4 in. PVC	0 - 34	SS	34 - 54.8	0.01	#1C Sand	30 - 57	25.5 - 30	Volcla	0 - 25.5	0-2
SWL0029	MBFB	89	88.7			0 - 70	4 in. PVC	0 - 83	SS	83 - 88	0.01	#1C Sand	80.1 - 89	75.2 - 80.1	Volcla	0 - 75.2	0-2
SWL0030	MBFC	121.5	120.5		0 - 68	0 - 91	4 in. PVC	0 - 104	SS	104 - 119.8	0.01	#1C Sand	99.8 - 121.5	95.6 - 99.8	Volcla	0 - 95.6	0-2
SWL0031	GAGE	182	180.5	0 - 68	0 - 91	0 - 150	4 in. PVC	0 - 164.3	SS	164.3 - 180	0.01	#1C Sand	159.5 - 182	156.4 - 159.5	Volcla	0 - 156.4	0-2
SWL0032	MBFB	90.5	89.5				4 in. PVC	0 - 79	SS	79 - 89	0.01	#1C Sand	75.8 - 90.5	69.9 - 75.8	Volcla	0 - 69.9	0-2

Table C-2
Groundwater Sampling Point Construction Information - Current Study
Groundwater Remedial Investigation Report
Del Amo Study Area

Location	HSU [a]	Total Depth Drilled	Total Depth of Well	Conductor Casing			Well Casing					Annular Materials					
				24" Steel Conductor Casing [b]	16" Steel Conductor Casing [c]	11" Steel Conductor Casing [d]	Blank Well Casing		Well Screen		Well Screen Slot Size	Filter Pack		Bentonite Seal Interval	Backfill		Concrete Surface Seal [e]
		(ft bgs)	(ft bgs)	Depth (ft bgs)	Depth (ft bgs)	Depth (ft bgs)	Type	Depth (ft bgs)	Type	Depth (ft bgs)	(inches)	Type	Depth (ft bgs)	Depth (ft bgs)	Type	Depth (ft bgs)	Depth (ft bgs)
SWL0033	MBFC	142.5	140.8				4 in. PVC	0 - 124.3	SS	124.3 - 140	0.01	#1C Sand	121 - 142.5	116.5 - 121	Volcla	0 - 116.5	0-2
SWL0034	GAGE	178	176.3			0 - 145	4.5 in. PVC	0 - 160	SS	160 - 175.8	0.01	#1C Sand	157 - 178	153 - 157	Volcla	0 - 153	0-2
SWL0035	MBFC	138	136.75			0 - 76	4 in. PVC	0 - 121	SS	121 - 136	0.01	#1C Sand	118 - 138	113.8 - 118	Volcla	0 - 113.8	0-2
SWL0036	GAGE	196.5	194.5		0 - 76	0 - 166	5 in. PVC	0 - 178	SS	178 - 194	0.01	#1C Sand	174.5 - 196.5	172.5 - 174.5	Volcla	0 - 172.5	0-2
SWL0037	MBFB	100	99			0 - 76	4 in. PVC	0 - 82	SS	82 - 98.5	0.01	#1C Sand	79 - 100	77 - 79	Volcla	0 - 77	0-2
SWL0038	WT	75	71				4 in. PVC	0 - 49.5	SS	49.5 - 70.5	0.01	#1C Sand	45.5 - 75	42 - 45.5	Volcla	0 - 42	0-2
SWL0039	WT	70	65				4 in. PVC	0 - 43.5	SS	43.5 - 64.5	0.01	#1C Sand	39.5 - 70	35 - 39.5	Volcla	0 - 35	0-2
SWL0040	MBFC	137	137			0 - 72	4.5 in. PVC	0 - 118.5	SS	118.5 - 135	0.01	#1C Sand	114.5 - 137	112 - 114.5	Volcla	0 - 112	0-2
SWL0041	MBFB	93.5	93.5			0 - 72	4 in. PVC	0 - 77	SS	77 - 92.75	0.01	#1C Sand	72.25 - 93.5	70.5 - 72.25	Volcla	0 - 70.5	0-2
SWL0042	WT	61	56.5				4 in. PVC	0 - 34.3	SS	34.3 - 55	0.01	#1C Sand	33.2 - 61	28 - 33.2	Volcla	0 - 28	0-2
SWL0043	MBFC	153.75	153.75	0 - 31	0 - 69	0 - 133	4 in. PVC	0 - 142	SS	142 - 152	0.01	#1C Sand	139.2 - 153.75	134.5 - 139.2	Volcla	0 - 134.5	0-2
SWL0044	WT	66.5	65.5				4 in. PVC	0 - 45.5	SS	45.5 - 65	0.01	#1C Sand	42.5 - 66.5	40.3 - 42.5	Volcla	0 - 40.3	0-2
SWL0045	WT	56.5	56.5				4 in. PVC	0 - 36	SS	36 - 56	0.01	#1C Sand	34 - 56.5	31.5 - 34	Volcla	0 - 31.5	0-2
SWL0046	WT	58.2	58.2				4 in. PVC	0 - 37.8	SS	37.8 - 57.8	0.01	#1C Sand	35.5 - 58.2	33.5 - 35.5	Volcla	0 - 33.5	0-2
SWL0047	MBFB	93	93			0 - 76	4 in. PVC	0 - 82	SS	82 - 92	0.01	#1C Sand	79.9 - 93	77.9 - 79.9	Volcla	0 - 77.9	0-2
SWL0048	MBFB	157	93.5			0 - 77	4 in. PVC	0 - 83	SS	83 - 93	0.01	#1C Sand	80.6 - 93.5	77.2 - 80.6	Volcla	0 - 77.2	0-2
SWL0049	WT/MBFB	63.75	63.75				4 in. PVC	0 - 42	SS	42 - 62.3	0.01	#1C Sand	39.2 - 63.75	35.3 - 39.2	Volcla	0 - 35.3	0-2
SWL0050	MBFB	83.5	83.5			0 - 64	4 in. PVC	0 - 72.5	SS	72.5 - 82	0.01	#1C Sand	69.5 - 83.5	66 - 69.5	Volcla	0 - 66	0-2
SWL0051	WT	56	56				4 in. PVC	0 - 35	SS	35 - 55	0.01	#1C Sand	32 - 56	28.8 - 32	Volcla	0 - 28.8	0-2
SWL0052	MBFB	95	95			0 - 70	4 in. PVC	0 - 78.3	SS	78.3 - 93.7	0.01	#1C Sand	74.4 - 95	72.3 - 74.4	Volcla	0 - 72.3	0-2
SWL0053	MBFC	129	129			0 - 101	4 in. PVC	0 - 118.3	SS	118.3 - 127.8	0.01	#1C Sand	115.3 - 129	112 - 115.3	Volcla	0 - 112	0-2
SWL0054	MBFC	131	131		0 - 83	0 - 105	4 in. PVC	0 - 120.2	SS	120.2 - 129.7	0.01	#1C Sand	116.5 - 131	110.5 - 116.5	Volcla	0 - 110.5	0-2
SWL0055	MBFC	131.1	131.1		0 - 63	0 - 104	4 in. PVC	0 - 120.3	SS	120.3 - 129.8	0.01	#1C Sand	117 - 131.1	113.8 - 117	Volcla	0 - 113.8	0-2
SWL0056	MBFB	85.9	85.9			0 - 56	4 in. PVC	0 - 75	SS	75 - 85	0.01	#1C Sand	72.1 - 85.9	68.3 - 72.1	Volcla	0 - 68.3	0-2
SWL0057	WT	59.8	59.8				4 in. PVC	0 - 38.5	SS	38.5 - 58.5	0.01	#1C Sand	35.4 - 59.8	32.5 - 35.4	Volcla	0 - 32.5	0-2
SWL0058	MBFC	129	128.2		0 - 67	0 - 108	4 in. PVC	0 - 118.1	SS	118.1 - 127.7	0.01	#1C Sand	114.5 - 129	111.8 - 114.5	Volcla	0 - 111.8	0-2
PZL0001	WT	60.3	60				2 in. PVC	0 - 50	PVC	50 - 60	0.01	#1C Sand	49.5 - 60.5	49 - 49.5	Volcla	0 - 49	0-2
PZL0002	WT	73	72.4				2 in. PVC	0 - 62	PVC	62 - 72	0.01	#1C Sand	61 - 62	59.4 - 61	Volcla	0 - 59.4	0-2
PZL0003	WT	73	72.3				2 in. PVC	0 - 52	PVC	52 - 72	0.01	#1C Sand	49 - 73	46 - 49	Volcla	0 - 46	0-2
PZL0004	WT	66	65.4				2 in. PVC	0 - 45	PVC	45 - 65	0.01	#1C Sand	44 - 66	41.8 - 44	Volcla	0 - 41.8	0-2
PZL0005	WT	58.5	58.4				2 in. PVC	0 - 38	PVC	38 - 58	0.01	#1C Sand	36.5 - 58.5	34.5 - 36.5	Volcla	0 - 34.5	0-2
PZL0006	WT	70	69.3				2 in. PVC	0 - 49	PVC	49 - 69	0.01	#1C Sand	47 - 70	44 - 47	Volcla	0 - 44	0-2

Table C-2
Groundwater Sampling Point Construction Information - Current Study
Groundwater Remedial Investigation Report
Del Amo Study Area

Location	HSU [a]	Total Depth Drilled	Total Depth of Well	Conductor Casing			Well Casing					Annular Materials					
				24" Steel Conductor Casing [b]	16" Steel Conductor Casing [c]	11" Steel Conductor Casing [d]	Blank Well Casing		Well Screen		Well Screen Slot Size	Filter Pack		Bentonite Seal Interval	Backfill		Concrete Surface Seal [e]
		(ft bgs)	(ft bgs)	Depth (ft bgs)	Depth (ft bgs)	Depth (ft bgs)	Type	Depth (ft bgs)	Type	Depth (ft bgs)	(inches)	Type	Depth (ft bgs)	Depth (ft bgs)	Type	Depth (ft bgs)	Depth (ft bgs)
PZL0007	WT	63	62.3				2 in. PVC	0 - 47	PVC	47 - 62	0.01	#1C Sand	46 - 63	44.8 - 46	Volcla	0 - 44.8	0-2
PZL0008	WT	61	60.3				2 in. PVC	0 - 45	PVC	45 - 60	0.01	#1C Sand	44 - 61	42 - 44	Volcla	0 - 42	0-2
PZL0009	WT	69.4	69.4				2 in. PVC	0 - 54	PVC	54 - 69	0.01	#1C Sand	52 - 69.4	50.5 - 52	Volcla	0 - 50.5	0-2
PZL0010	WT	71	69.8				2 in. PVC	0 - 49.5	PVC	49.5 - 69.5	0.01	#1C Sand	48.5 - 71	45 - 48.5	Volcla	0 - 45	0-2
PZL0011	WT	56	55.3				2 in. PVC	0 - 35	SS	35 - 55	0.01	#1C Sand	33 - 56	30 - 33	Volcla	0 - 30	0-2
PZL0012	WT	58	57.5				2 in. PVC	0 - 37.2	SS	37.2 - 57.2	0.01	#1C Sand	35 - 58	31 - 35	Volcla	0 - 31	0-2
PZL0013	WT	62	61.4				2 in. PVC	0 - 41	SS	41 - 61	0.01	#1C Sand	40 - 62	37 - 41	Volcla	0 - 37	0-2
PZL0014	WT	66.4	66.4				2 in. PVC	0 - 51	SS	51 - 66	0.01	#1C Sand	50.5 - 66	50 - 50.5	Volcla	0 - 50	0-2
PZL0015	WT	72	71				2 in. PVC	0 - 55.5	PVC	55.5 - 70.5	0.01	#1C Sand	55 - 72	45.5 - 55	Volcla	1 - 45.5	0-2
PZL0016	WT	67.5	67.5				2 in. PVC	0 - 47	SS	47 - 67	0.01	#1C Sand	45 - 67.5	42 - 45	Volcla	1 - 42	0-2
PZL0017	WT	69.5	69.3				2 in. PVC	0 - 54	PVC	54 - 69	0.01	#1C Sand	53 - 69.5	52 - 53	Volcla	0 - 52	0-2
PZL0018	WT	68	68				2 in. PVC	0 - 48	PVC	48 - 68	0.01	#1C Sand	47 - 69	46 - 47	Volcla	0 - 46	0-2
PZL0019	WT	67	67				2 in. PVC	0 - 46.7	PVC	46.7 - 66.7	0.01	#1C Sand	45 - 67	43 - 45	Volcla	0 - 43	0-2
PZL0020	WT	68	68				2 in. PVC	0 - 47	SS	47 - 67	0.01	#1C Sand	46 - 68	44 - 46	Volcla	0 - 44	0-2
PZL0021	WT/MBFB	74	72.5				2 in. PVC	0 - 52	SS	52 - 72	0.01	#1C Sand	50 - 73	47 - 50	Volcla	0 - 47	0-2
PZL0022	WT	62	62				2 in. PVC	0 - 42	PVC	42 - 61.7	0.01	#1C Sand	40 - 62	37 - 40	Volcla	0 - 37	0-2
PZL0023	WT	66.5	65.2				2 in. PVC	0 - 45	SS	45 - 65	0.01	#1C Sand	42.8 - 66.5	39.5 - 42.8	Volcla	0 - 39.5	0-2
PZL0024	WT	65	64.8				2 in. PVC	0 - 44.4	SS	44.4 - 64.4	0.01	#1C Sand	41 - 65	38 - 41	Volcla	0 - 38	0-2
PZL0025	WT	64	63.8				2 in. PVC	0 - 43.5	SS	43.5 - 63.5	0.01	#1C Sand	41.5 - 64	38.5 - 41.5	Volcla	0 - 38.5	0-2
PZL0026	WT	54	54				2 in. PVC	0 - 33	SS	33 - 53	0.01	#1C Sand	30 - 54	27 - 30	Volcla	0 - 27	0-2

Empty cells imply that the associated information is unknown.

[a] Hydrostratigraphic Unit in which well is screened: WT = Water Table MBFB = middle Bellflower B-sand; MBFC = middle Bellflower C-sand; GAGE = Gage aquifer.

[b] 24 inch diameter steel conductor casings set in 32 inch diameter borehole.

[c] 16 inch diameter steel conductor casings set in 24 inch diameter borehole.

[d] 11 inch diameter steel conductor casings set in 16 inch diameter borehole.

[e] The 0 - 2 foot depth is approximate, +/- one foot.

Table C-3
Groundwater Sampling Point Construction Information - Previous Investigations
Groundwater Remedial Investigation Report
Del Amo Study Area

Location	HSU [a]	Total Depth Drilled	Total Depth of Well	Conductor Casing			Well Casing					Annular Materials					
				24" Steel Conductor Casing [b]	16" Steel Conductor Casing [c]	11" Steel Conductor Casing [d]	Blank Well Casing		Well Screen		Well Screen Slot Size	Filter Pack		Bentonite Seal Interval	Backfill		Concrete Surface Seal [e]
		(ft bgs)	(ft bgs)	Depth (ft bgs)	Depth (ft bgs)	Depth (ft bgs)	Type	Depth (ft bgs)	Type	Depth (ft bgs)	(inches)	Type	Depth (ft bgs)	Depth (ft bgs)	Type	Depth (ft bgs)	Depth (ft bgs)
XBF-01	MBFC	126.5	124				4 in. PVC	0 - 113.5	SS	113.5 - 124	0.05		110.5 - 126.5	102 - 110.5		0 - 102	
XBF-02	MBFC	128	124.5				4 in. PVC	0 - 114	SS	114 - 124.5	0.05		111 - 128	103.5 - 111		0 - 103.5	
XBF-03	MBFC	125.5	124				4 in. PVC	0 - 113.5	SS	113.5 - 124	0.05		110 - 125.5	102 - 110		0 - 102	
XBF-04	MBFC	126	123				4 in. PVC	0 - 112	SS	112 - 123	0.05		108.5 - 126	100 - 108.5		0 - 100	
XBF-05	MBFC	135	132				4 in. PVC	0 - 122	SS	122 - 132	0.05		119 - 135	112 - 119		0 - 112	
XBF-06	MBFC	132	129				4 in. PVC	0 - 115	SS	115 - 125	0.02		111 - 132	110 - 111		0 - 110	
XBF-07	MBFC	119	116				4 in. PVC	0 - 106	SS	106 - 116	0.02		102 - 119	96 - 102		0 - 96	
XBF-08	MBFC	126	125				4 in. PVC	0 - 115	SS	115 - 125	0.05		112 - 126	110 - 112		0 - 112	
XBF-09	MBFC	129	128				4 in. PVC	0 - 107	SS	107 - 118	0.03		105 - 117	95 - 105		0 - 95	
XBF-10	MBFC	131	130				4 in. PVC	0 - 120	SS	120 - 130	0.05		113 - 130	111 - 118		0 - 111	
XBF-11	MBFC	124	124				4 in. PVC	0 - 104	SS	104 - 124	0.02		102 - 124	99 - 102		0 - 99	
XBF-12	MBFC	120	120				4 in. PVC	0 - 110	SS	110 - 120	0.05		107 - 120	105 - 107		0 - 105	
XBF-13	MBFC	138	137				4 in. PVC	0 - 117	SS	117 - 137	0.02		113 - 138	110 - 113		0 - 110	
XBF-14	MBFC	122	121				4 in. PVC	0 - 111	SS	111 - 121	0.05		103 - 122	101 - 103		0 - 101	
XBF-15	MBFC	114	113				4 in. PVC	0 - 98	SS	98 - 103	0.05		90 - 114	85 - 90		0 - 85	
XBF-16	MBFC	130	124				4 in. PVC	0 - 103	SS	103 - 124	0.05		102 - 126	98 - 102		0 - 98	
XBF-17	MBFC	124	120				4 in. PVC	0 - 100	SS	100 - 120	0.05		98 - 120	95 - 98		0 - 95	
XBF-18	MBFC	145	143				4 in. PVC	0 - 113	SS	113 - 143			108 - 144	104 - 108		0 - 104	
XBF-19	MBFC	135	134				4 in. PVC	0 - 128	SS	128 - 133			123 - 135	117 - 123		0 - 117	
XBF-20	MBFC	130	129				4 in. PVC	0 - 110	SS	110 - 129			104 - 130	99 - 104		0 - 99	
XBF-21	MBFC	123	122				4 in. PVC	0 - 96	SS	96 - 121			94 - 123	89 - 94		0 - 89	
XBF-22	MBFC	120	119				4 in. PVC	0 - 87	SS	87 - 117			71 - 120	67 - 71		0 - 67	
XBF-23	MBFC	120	116				4 in. PVC	0 - 101	SS	101 - 116			95 - 120	88 - 95		0 - 88	
XBF-24	MBFC	122	122				4 in. PVC	0 - 96	SS	96 - 121			93 - 122	87 - 93		0 - 87	
XBF-25	MBFC	115	105				4 in. PVC	0 - 94	SS	94 - 104			90 - 106	83 - 90		0 - 83	
XBF-26	MBFC	110	105				4 in. PVC	0 - 90	SS	90 - 105			88 - 110	85 - 88		0 - 85	
XBF-27	MBFC	122	121				4 in. PVC	0 - 101	SS	101 - 121			96 - 121	86 - 96		0 - 86	
XBF-28	MBFC	115	110				4 in. PVC	0 - 95	SS	95 - 110			91 - 110	85 - 91		0 - 85	
XBF-29	MBFC	126	120				4 in. PVC	0 - 100	SS	100 - 120			95 - 121	91 - 95		0 - 91	
XBF-30	MBFC	120	113				4 in. PVC	0 - 82	SS	82 - 113			77 - 113	69 - 77		0 - 69	
XBF-31	MBFC	136	136				4 in. PVC	0 - 105	SS	105 - 135			102 - 135	99 - 102		0 - 99	
XBF-32	MBFC	120	118				4 in. PVC	0 - 65	SS	65 - 115			62 - 120	60 - 62		0 - 60	
XBF-33	MBFC	102	102				4 in. PVC	0 - 60	SS	60 - 100			55 - 101	53 - 55		0 - 53	
XDA-1B	GAGE	246	229				4.5 in. PVC	0 - 210	SS	210 - 220	0.02		200 - 208	53 - 55		0 - 200	

Table C-3
Groundwater Sampling Point Construction Information - Previous Investigations
Groundwater Remedial Investigation Report
Del Amo Study Area

Location	HSU [a]	Total Depth Drilled	Total Depth of Well	Conductor Casing			Well Casing					Annular Materials					
				24" Steel Conductor Casing [b]	16" Steel Conductor Casing [c]	11" Steel Conductor Casing [d]	Blank Well Casing		Well Screen		Well Screen Slot Size	Filter Pack		Bentonite Seal Interval	Backfill		Concrete Surface Seal [e]
		(ft bgs)	(ft bgs)	Depth (ft bgs)	Depth (ft bgs)	Depth (ft bgs)	Type	Depth (ft bgs)	Type	Depth (ft bgs)	(inches)	Type	Depth (ft bgs)	Depth (ft bgs)	Type	Depth (ft bgs)	Depth (ft bgs)
XDM-01	WT	100	98				PVC	0 - 68	PVC	68 - 98	0.02		60 - 100	48 - 60		0 - 48	
XDM-02	WT/MBFB	90	89.5				PVC	0 - 55	PVC	55 - 89.5	0.02		49 - 90	40 - 49		0 - 40	
XG-01	GAGE	164.5	161				4 in. PVC	0 - 140.5	SS	140.5 - 161	0.02		136 - 164.5	127 - 136		0 - 127	
XG-01WC	MBFB	100	100				4 in. PVC	0 - 80	SS	80 - 90	0.01		136 - 164.5	127 - 136		0 - 127	
XG-02	GAGE	180	175.5				4 in. PVC	0 - 155	SS	155 - 175.5	0.02		153 - 180	118 - 153		0 - 118	
XG-02WC	MBFB	203	203				4 in. PVC	0 - 82	SS	82 - 92	0.01		153 - 180	118 - 153		0 - 118	
XG-03	GAGE	170	166				4 in. PVC	0 - 145.5	SS	145.5 - 166	0.02		143 - 170	127 - 143		0 - 127	
XG-04	GAGE	195	194				4 in. PVC	0 - 154	SS	154 - 194	0.02		151 - 195	148 - 151		0 - 148	
XG-05	GAGE	194	190				4 in. PVC	0 - 151	SS	151 - 190	0.02		128 - 194	126 - 128		0 - 126	
XG-06	GAGE	192	190				4 in. PVC	0 - 149	SS	149 - 190	0.02		149 - 192	148 - 149		0 - 148	
XG-07	GAGE	181	180				4 in. PVC	0 - 140	SS	140 - 180	0.02		136 - 181	134 - 136		0 - 134	
XG-08	GAGE	181	180				4 in. PVC	0 - 140	SS	140 - 180	0.02		129 - 181	126 - 129		0 - 126	
XG-09	GAGE	213	213				4 in. PVC	0 - 172	SS	172 - 213	0.02		169 - 213	165 - 169		0 - 165	
XG-10	GAGE	198	197				4 in. PVC	0 - 157	SS	157 - 197	0.02		149 - 198	143 - 149		0 - 143	
XG-11	GAGE	218	217				4 in. PVC	0 - 177	SS	177 - 217	0.02		175 - 218	169 - 175		0 - 169	
XG-12	GAGE	198	198				4 in. PVC	0 - 158	SS	158 - 198	0.02		150 - 198	148 - 150		0 - 148	
XG-13	GAGE	197	197				4 in. PVC	0 - 157	SS	157 - 197	0.02		121 - 197	118 - 121		0 - 118	
XG-14	GAGE	196	195				4 in. PVC	0 - 155	SS	155 - 195	0.02		151 - 196	148 - 151		0 - 148	
XG-15	GAGE	184	182				4 in. PVC	0 - 142	SS	142 - 182	0.02		137 - 184	132 - 137		0 - 132	
XG-16	GAGE	187	187				4 in. PVC	0 - 145	SS	145 - 185	0.02		141 - 187	135 - 141		0 - 135	
XG-17	GAGE	213	212				4 in. PVC	0 - 172	SS	172 - 212	0.02		167 - 213	161 - 167		0 - 161	
XG-18	GAGE	202	201				4 in. PVC	0 - 161	SS	161 - 201	0.02		157 - 202	153 - 157		0 - 153	
XG-19	GAGE	187	185				4 in. PVC	0 - 145	SS	145 - 185	0.02		134 - 185	127 - 134		0 - 127	
XGW-07A	WT	57.5	57.5				4 in. PVC	0 - 47	0	47 - 57	0.01		44.6 - 57.5	41 - 44.6		0 - 41	
XGW-07C	MBFB	91.3	91.3				8 in.	0 - 86.3	0	86.3 - 90.9	0.01		82.5 - 91.3	79.5 - 82.5		0 - 79.5	
XLG-01	GAGE	211	209				4 in. PVC	0 - 188.5	SS	188.5 - 209	0.01		180 - 211	167.5 - 180		0 - 167.5	
XLG-02	GAGE	207	205				4 in. PVC	0 - 185	SS	185 - 205	0.02		179 - 207	177 - 179		0 - 177	
XLW-01	LW	251	250				4 in. PVC	0 - 230	SS	230 - 250	0.02		225 - 251	204 - 225		0 - 204	
XLW-02	LW	253	252				4 in. PVC	0 - 232	SS	232 - 252	0.02		230 - 253	221 - 230		0 - 221	
XLW-03	LW	261	259				4 in. PVC	0 - 238	SS	238 - 259	0.02		236 - 259	220 - 236		0 - 220	
XLW-04	LW	246	245				4 in. PVC	0 - 225	SS	225 - 245	0.02		223 - 246	221 - 223		0 - 221	
XLW-05	LW	251	250				4 in. PVC	0 - 230	SS	230 - 250	0.02		226 - 251	220 - 226		0 - 220	
XLW-06	LW	256	255				4 in. PVC	0 - 235	SS	235 - 255	0.02		232 - 256	222 - 232		0 - 222	
XLW-07	LW	251	250				4 in. PVC	0 - 230	SS	230 - 250	0.02		226 - 251	222 - 226		0 - 222	

Table C-3
Groundwater Sampling Point Construction Information - Previous Investigations
Groundwater Remedial Investigation Report
Del Amo Study Area

Location	HSU [a]	Total Depth Drilled	Total Depth of Well	Conductor Casing			Well Casing					Annular Materials					
				24" Steel Conductor Casing [b]	16" Steel Conductor Casing [c]	11" Steel Conductor Casing [d]	Blank Well Casing		Well Screen		Well Screen Slot Size	Filter Pack		Bentonite Seal Interval	Backfill		Concrete Surface Seal [e]
		(ft bgs)	(ft bgs)	Depth (ft bgs)	Depth (ft bgs)	Depth (ft bgs)	Type	Depth (ft bgs)	Type	Depth (ft bgs)	(inches)	Type	Depth (ft bgs)	Depth (ft bgs)	Type	Depth (ft bgs)	Depth (ft bgs)
XMW-01	WT/MBFB	76.6	76.6				4 in. PVC	0 - 63	PVC	63 - 73	0.02		57.5 - 76.6	222 - 226		0 - 222	
XMW-01HD	WT	61.5	60				4 in. PVC	0 - 40	PVC	40 - 60	0.02		33 - 61.5	30 - 33		0 - 30	
XMW-01T	WT/MBFB	85	85				4 in. PVC	0 - 65	SS	65 - 85	0.02		56 - 85	0 - 54		0 - 30	
XMW-02	WT/MBFB	77.5	77.5				4 in. PVC	0 - 66.7	0	66.7 - 76.7	0.02		59.7 - 77.5	0 - 54		0 - 30	
XMW-02HD	WT	61.5	60				4 in. PVC	0 - 40	PVC	40 - 60	0.02		33 - 61.5	30 - 33		0 - 30	
XMW-02T	WT/MBFB	85	83.5				4 in. PVC	0 - 63	PVC	63 - 83	0.02		61 - 83	0 - 59		0 - 30	
XMW-03	WT/MBFB	75	75				4 in. PVC	0 - 64.4	0	64.4 - 74.4	0.02		55.9 - 75	0 - 59		0 - 30	
XMW-03HD	WT	71.5	70				4 in. PVC	0 - 40	PVC	40 - 60	0.02		35 - 71.5	32 - 35		0 - 32	
XMW-04	WT/MBFB	75.3	75.3				4 in. PVC	0 - 64.9	0	64.9 - 74.9	0.02		56.7 - 75.3	32 - 35		0 - 32	
XMW-04HD	WT	62	61				4 in. PVC	0 - 51	PVC	51 - 61	0.02		49 - 62	47 - 49		0 - 47	
XMW-05	WT/MBFB	72.5	72.5				4 in. PVC	0 - 61.5	0	61.5 - 72.5	0.02		55 - 72.4	47 - 49		0 - 47	
XMW-06	WT/MBFB	85	80				4 in. PVC	0 - 65	SS	65 - 80	0.02		60 - 84	57 - 60		0 - 57	
XMW-07	WT/MBFB	85	80				4 in. PVC	0 - 65	SS	65 - 80	0.02		60 - 85	57 - 60		0 - 57	
XMW-08	WT/MBFB	85	80				4 in. PVC	0 - 65	SS	65 - 80	0.02		62 - 85	58 - 62		0 - 58	
XMW-09	WT/MBFB	85	81				4 in. PVC	0 - 66	SS	66 - 81	0.02		61 - 85	58 - 61		0 - 58	
XMW-10	WT/MBFB	83	77				4 in. PVC	0 - 62	SS	62 - 77	0.02		56 - 83	53 - 56		0 - 53	
XMW-11	WT/MBFB	84	77				4 in. PVC	0 - 62	SS	62 - 77	0.02		58 - 83	55 - 58		0 - 55	
XMW-12	WT/MBFB	85	76				4 in. PVC	0 - 61	SS	61 - 76	0.02		54 - 85	51 - 54		0 - 51	
XMW-13	WT/MBFB	81	77				4 in. PVC	0 - 62	SS	62 - 77	0.02		59 - 78	57 - 59		0 - 57	
XMW-14	WT/MBFB	80	73				4 in. PVC	0 - 58	SS	58 - 73	0.02		54 - 80	48 - 54		0 - 48	
XMW-15	WT/MBFB	83	77				4 in. PVC	0 - 62	SS	62 - 77	0.02		57 - 83	54 - 57		0 - 54	
XMW-16	WT/MBFB	78	76				4 in. PVC	0 - 59	SS	59 - 76	0.01		55 - 78	52 - 55		0 - 52	
XMW-17	WT/MBFB	83	81				4 in. PVC	0 - 65	SS	65 - 81	0.02		61 - 83	58 - 61		0 - 58	
XMW-18	WT/MBFB	84	83				4 in. PVC	0 - 68	SS	68 - 83	0.02		64 - 84	61 - 64		0 - 61	
XMW-19	WT/MBFB	80	79				4 in. PVC	0 - 63	SS	63 - 79	0.02		60 - 80	57 - 60		0 - 57	
XMW-20	WT/MBFB	74	73				2 in. PVC	0 - 57	SS	57 - 73	0.01		52 - 74	50 - 52		0 - 50	
XMW-21	WT/MBFB	73	71				4 in. PVC	0 - 54	SS	54 - 70	0.01		49 - 73	42 - 49		0 - 42	
XMW-22	WT/MBFB	74	74				2 in. PVC	0 - 57	SS	57 - 73	0.02		54 - 74	52 - 54		0 - 52	
XMW-23	WT	80	75				4 in. PVC	0 - 60	SS	60 - 75	0.02		58 - 80	55 - 58		0 - 55	
XMW-24	WT	68	64				4 in. PVC	0 - 49	SS	49 - 64	0.01		47 - 66	44 - 47		0 - 44	
XMW-25	WT	75	71				4 in. PVC	0 - 56	SS	56 - 71	0.02		53 - 74	50 - 53		0 - 50	
XMW-26	WT/MBFB	80	74				4 in. PVC	0 - 59	SS	59 - 74	0.02		56 - 76	53 - 56		0 - 53	
XMW-27	WT/MBFB	77	77				4 in. PVC	0 - 59	SS	59 - 75			55 - 77	54 - 55		0 - 54	
XMW-28	WT/MBFB	74	74				4 in. PVC	0 - 54	SS	54 - 71			50 - 74	49 - 50		0 - 49	

Table C-3
Groundwater Sampling Point Construction Information - Previous Investigations
Groundwater Remedial Investigation Report
Del Amo Study Area

Location	HSU [a]	Total Depth Drilled	Total Depth of Well	Conductor Casing			Well Casing					Annular Materials					
				24" Steel Conductor Casing [b]	16" Steel Conductor Casing [c]	11" Steel Conductor Casing [d]	Blank Well Casing		Well Screen		Well Screen Slot Size	Filter Pack		Bentonite Seal Interval	Backfill		Concrete Surface Seal [e]
		(ft bgs)	(ft bgs)	Depth (ft bgs)	Depth (ft bgs)	Depth (ft bgs)	Type	Depth (ft bgs)	Type	Depth (ft bgs)	(inches)	Type	Depth (ft bgs)	Depth (ft bgs)	Type	Depth (ft bgs)	Depth (ft bgs)
XMW-29	WT/MBFB	75	75				4 in. PVC	0 - 57	SS	57 - 73			55 - 75	52 - 55		0 - 52	
XMW-30	WT/MBFB	80	70				4 in. PVC	0 - 54	SS	54 - 70			53 - 70	50 - 53		0 - 50	
XP-01	WT/MBFB	82	80				4 in.	0 - 60	0	60 - 80	0.01		55 - 82	49 - 55		0 - 49	
XP-02	WT/MBFB	79	75.5				4 in. PVC	0 - 55.5	SS	55.5 - 75.5	0.02		51 - 79	46 - 51		0 - 46	
XP-03	MBFB	96	95					0 - 85	0	85 - 95			80 - 96	70 - 80		0 - 70	
XUBT-03	WT																

Empty cells imply that the associated information is unknown.

[a] Hydrostratigraphic Unit in which well is screened: WT = Water Table MBFB = middle Bellflower B-sand; MBFC = middle Bellflower C-sand; GAGE = Gage aquifer.

[b] 24 inch diameter steel conductor casings set in 32 inch diameter borehole.

[c] 16 inch diameter steel conductor casings set in 24 inch diameter borehole.

[d] 11 inch diameter steel conductor casings set in 16 inch diameter borehole.

[e] The 0 - 2 foot depth is approximate, +/- one foot.

896/076

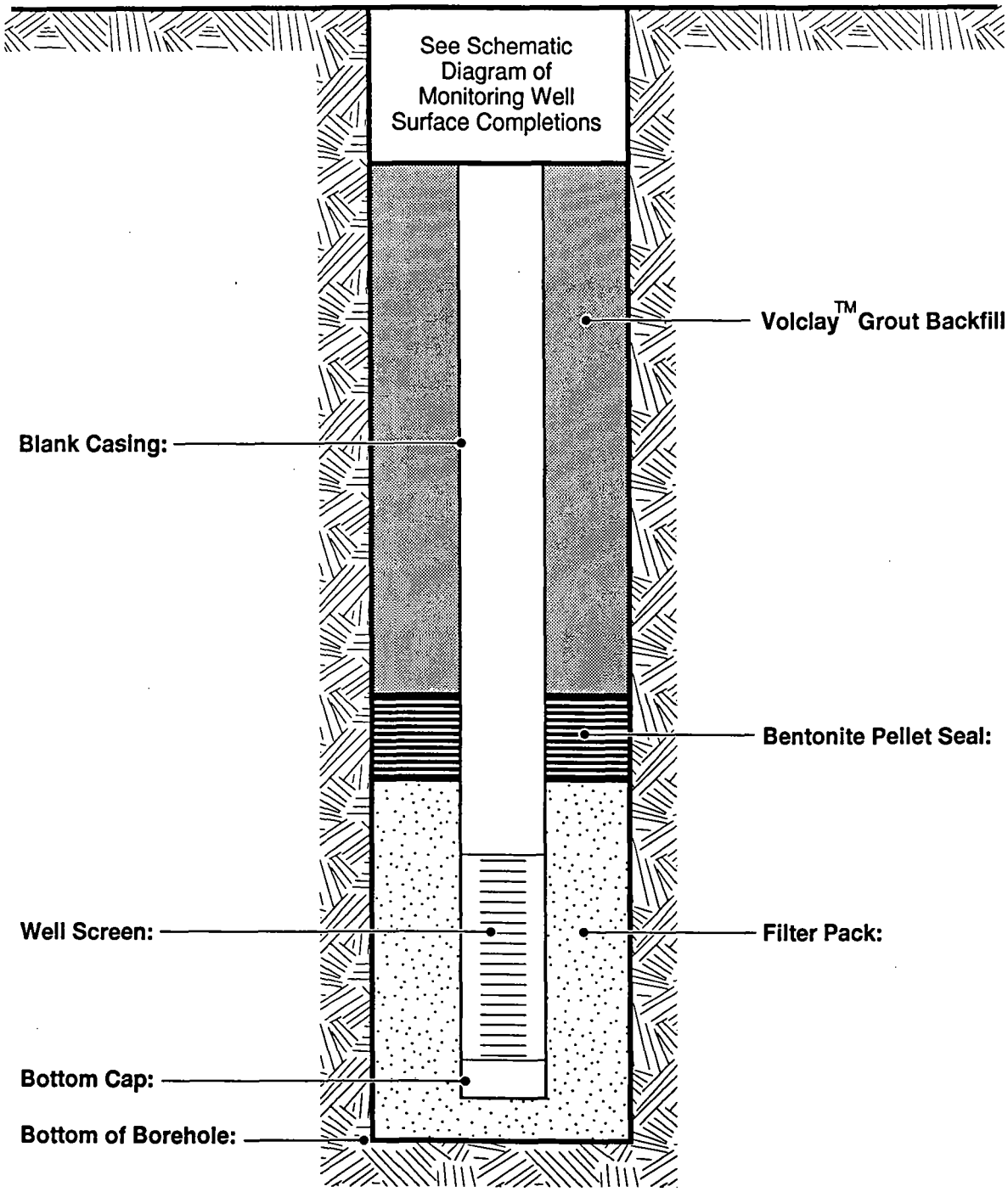


FIGURE C-1

Schematic Monitoring Well Construction Diagram

Groundwater Remedial Investigation Report
Del Amo Study Area

DAMES & MOORE

896/077

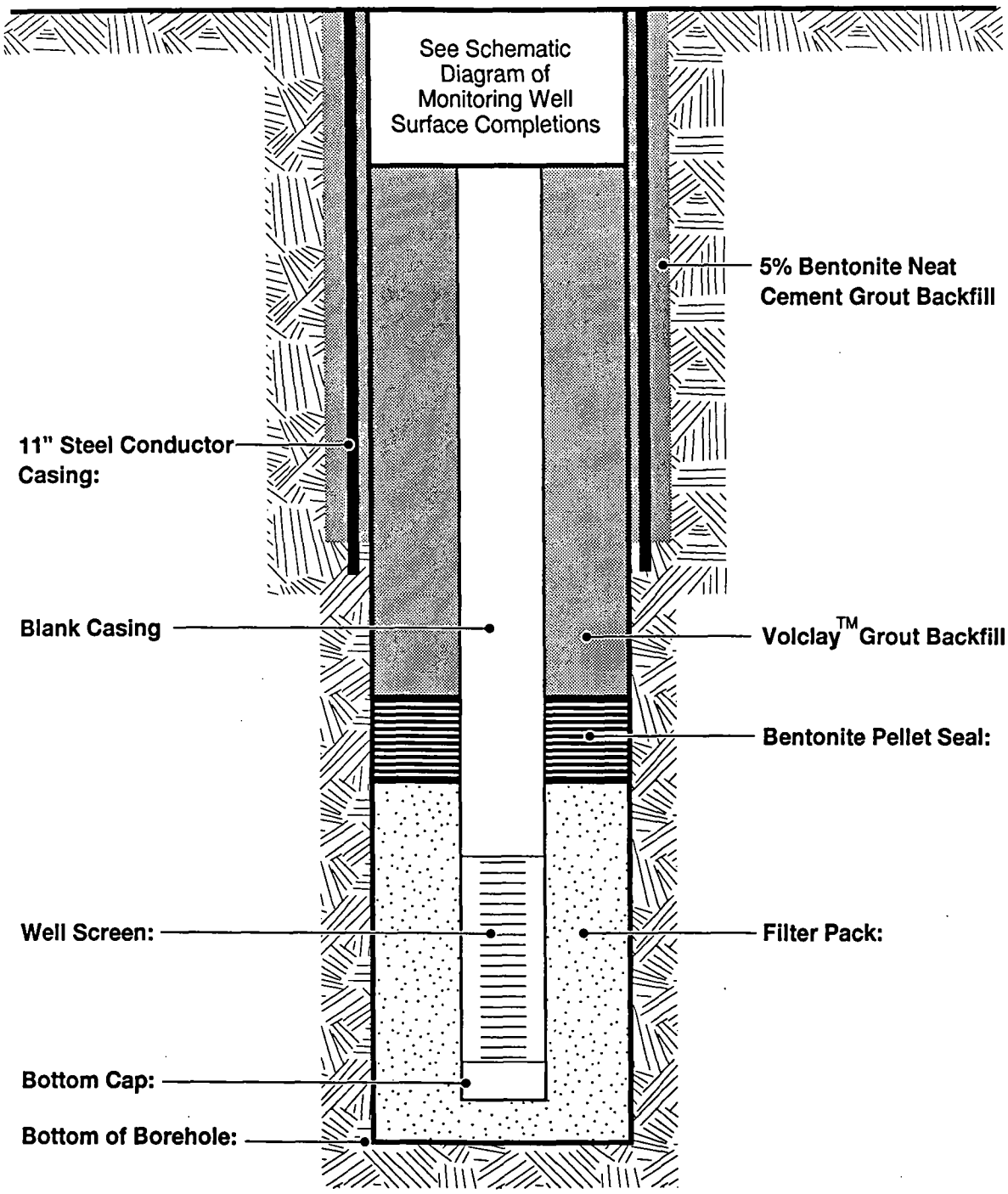


FIGURE C-2

Schematic Monitoring Well Construction Diagram with Single Conductor Casing

Groundwater Remedial Investigation Report
Del Amo Study Area

DAMES & MOORE

896/078

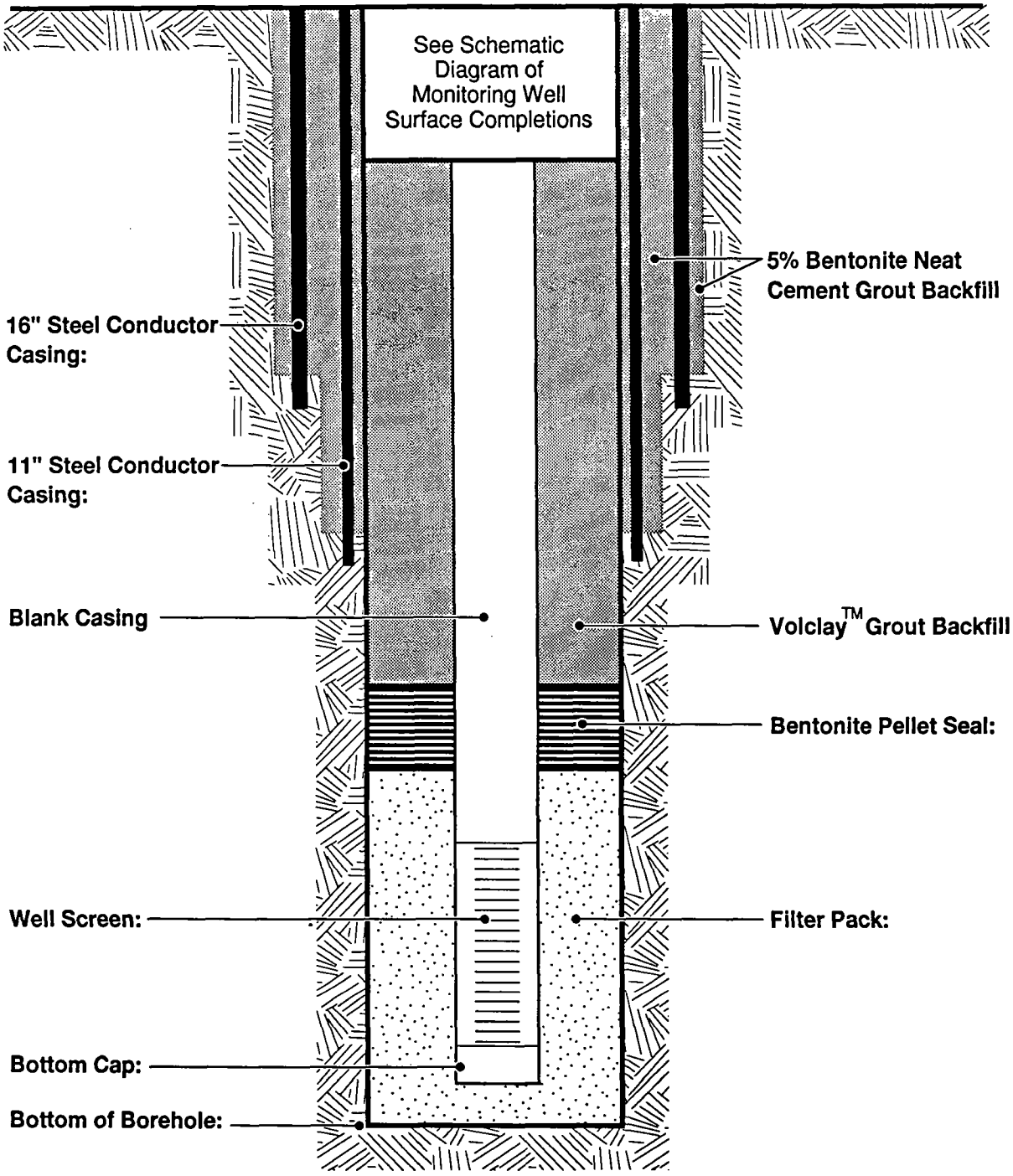


FIGURE C-3

Schematic Monitoring Well Construction Diagram with Double Conductor Casing

Groundwater Remedial Investigation Report
Del Amo Study Area

DAMES & MOORE

896/079

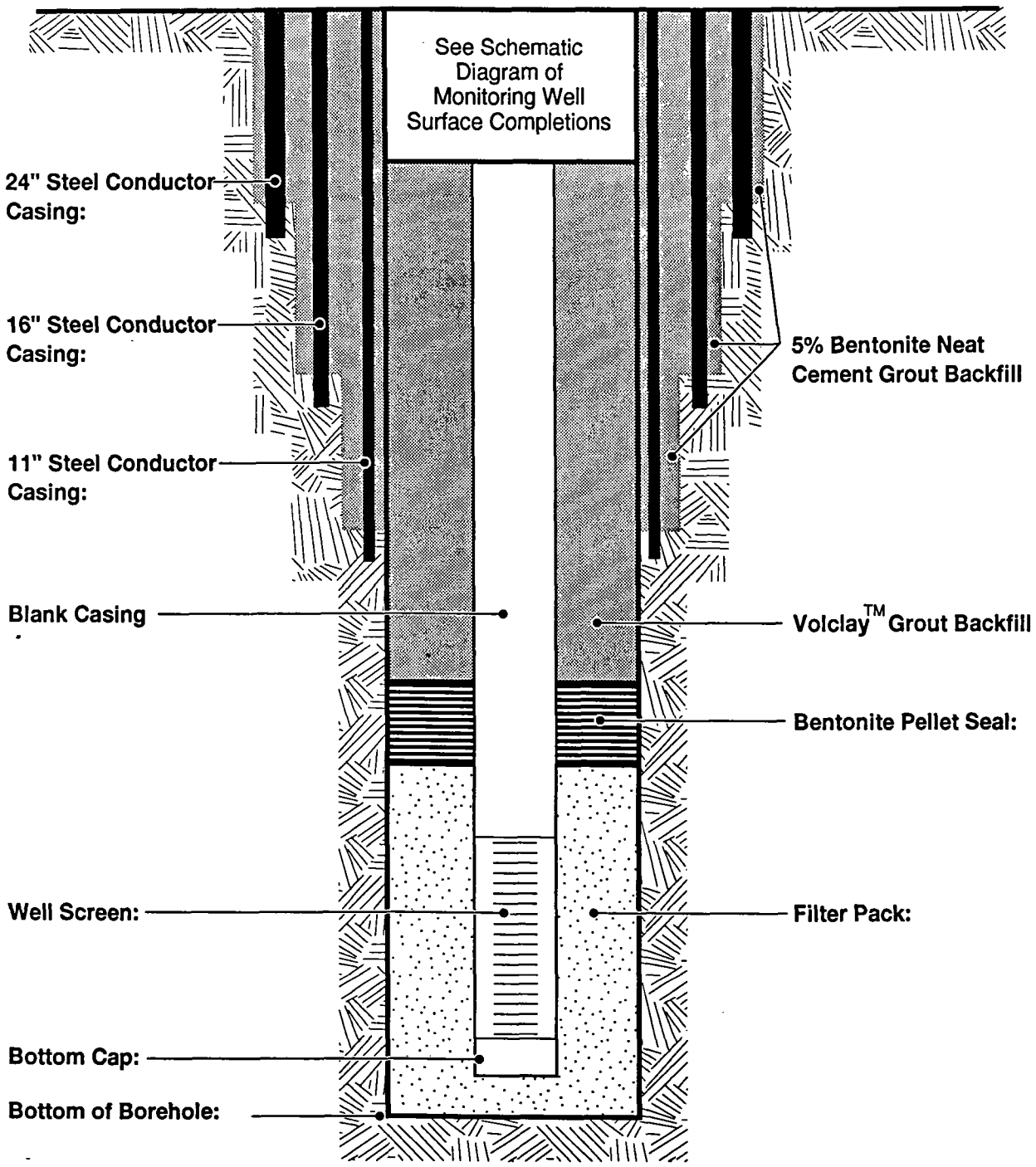


FIGURE C-4

Schematic Monitoring Well Construction Diagram with Triple Conductor Casing

Groundwater Remedial Investigation Report
Del Amo Study Area

DAMES & MOORE

896/080/A

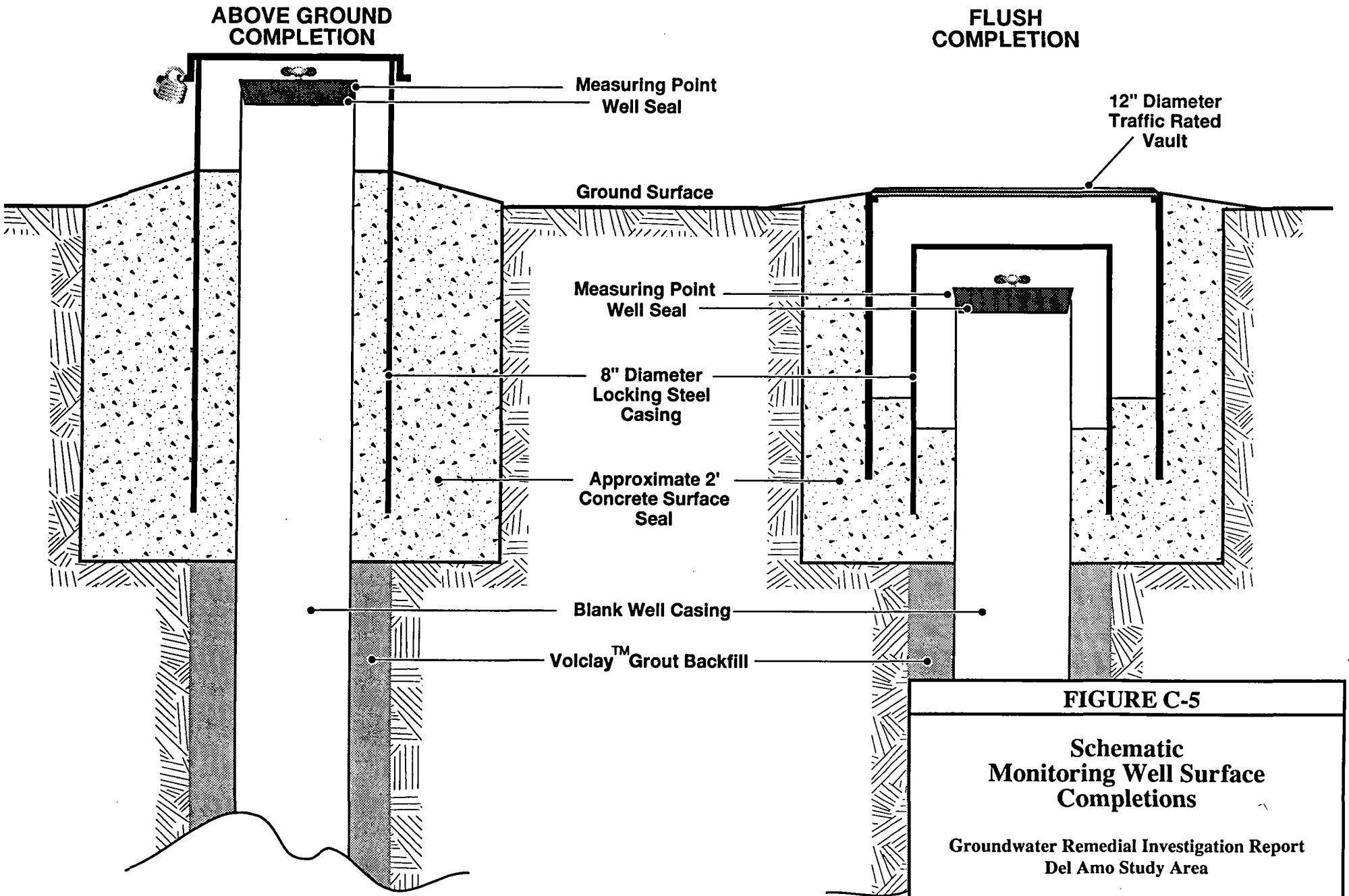


FIGURE C-5

Schematic Monitoring Well Surface Completions

Groundwater Remedial Investigation Report
Del Amo Study Area

APPENDIX D

DOWNHOLE GEOPHYSICAL LOGS

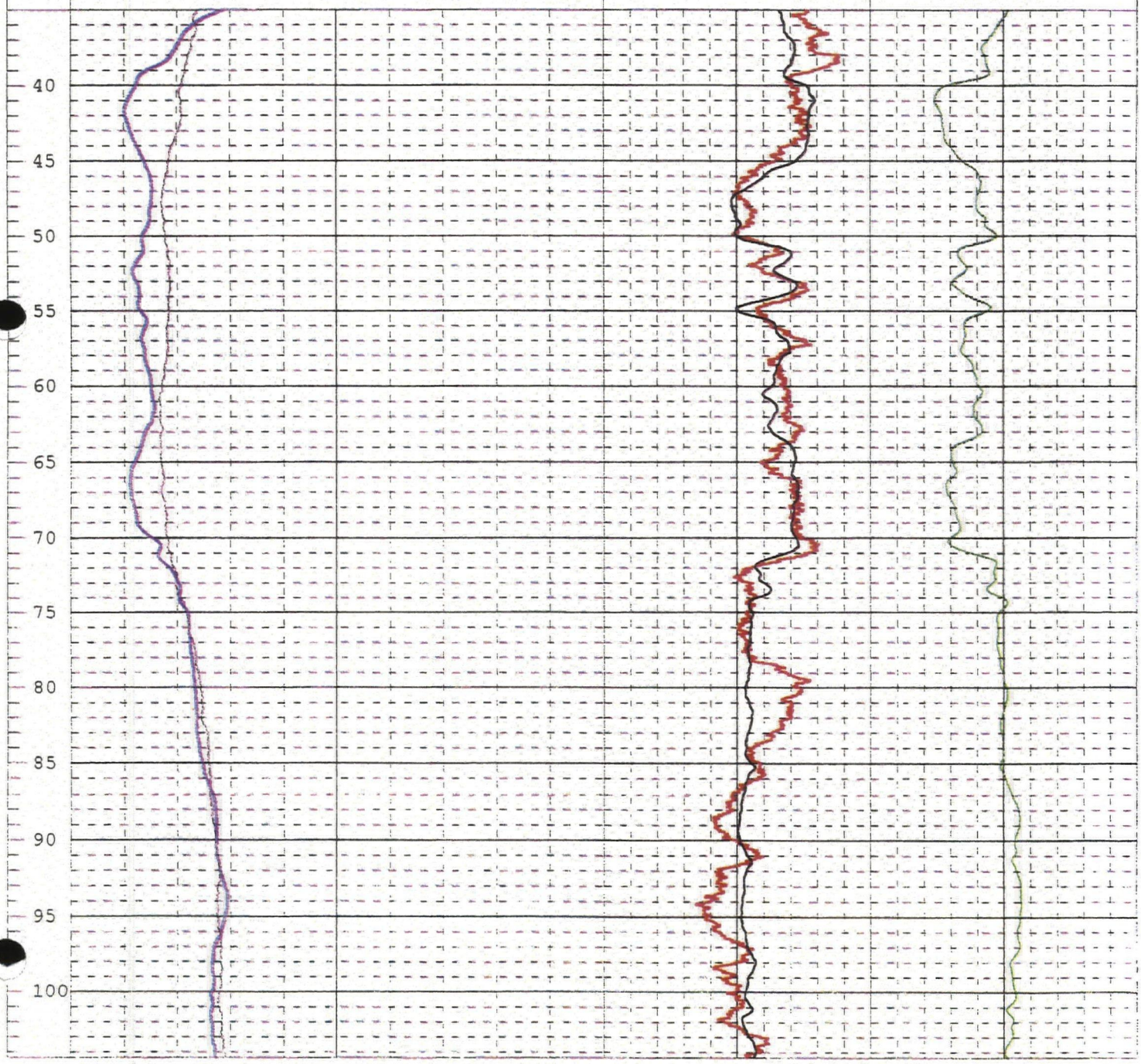
Robertson Geologging Log Analysis System 1.2i

File name : C:\PCL2\DELAMO\SBL0106.MRG
Client name : DAMES MOORE
Borehole name : SBL0106
Date : 09-19-95

Site name : DEL AMO
Main log title : E-LOG NATURAL GAMMA
Scale 1 : 1290

DEL AMO PROJECT 204TH STREET
BENTONITE AND WATER
TORRENCE, CA

Depth	RESISTIVITY			NAT GAMMA			SPR		
	0.00	16(O M)	100.00	50.00	CPS(CPS)	150.00	10.00	P(OHM)	60.00
	0.00	64(O M)	100.00	700.00	SP(MV)	800.00			

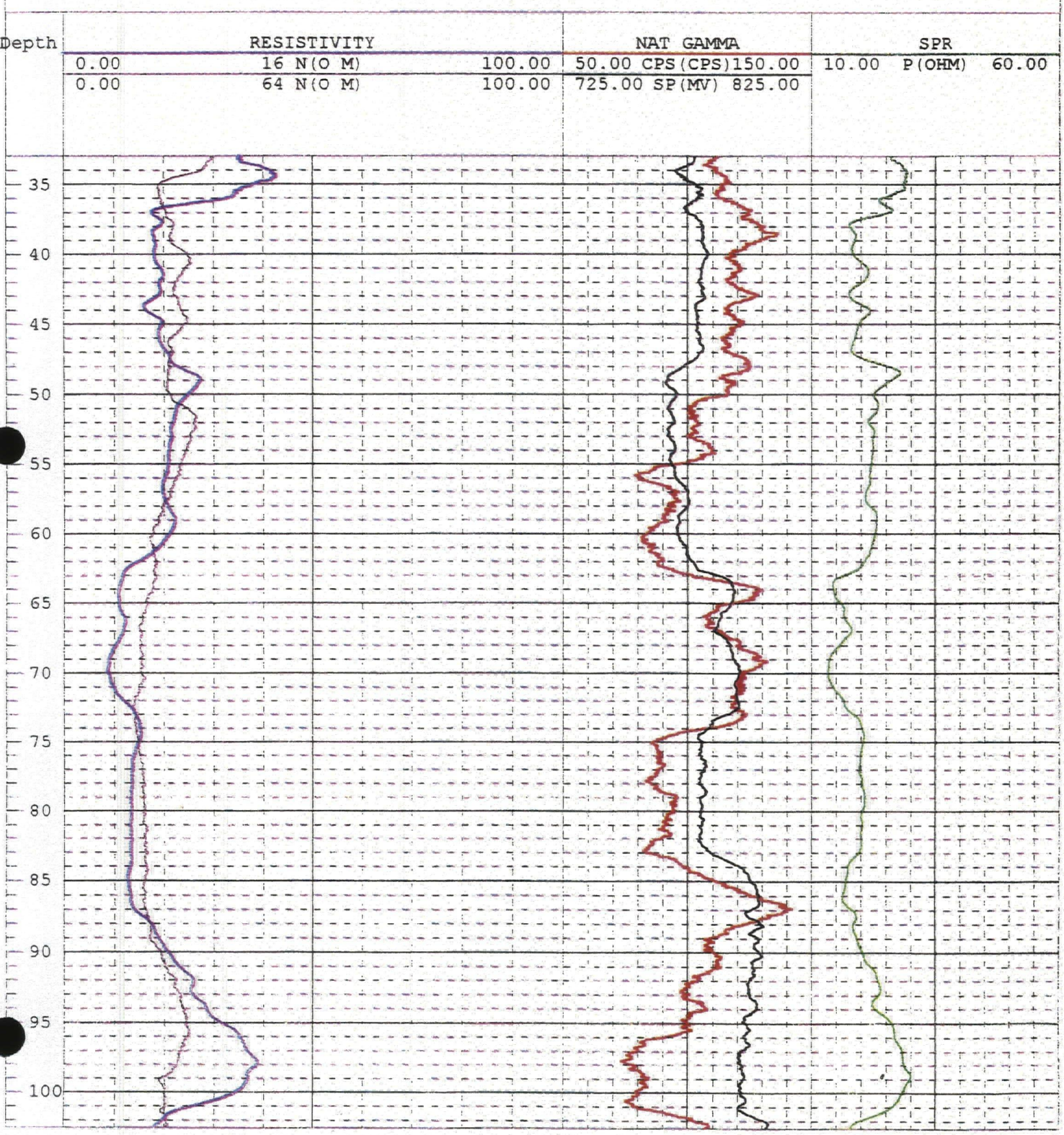


Robertson Geologging Log Analysis System 1.2i

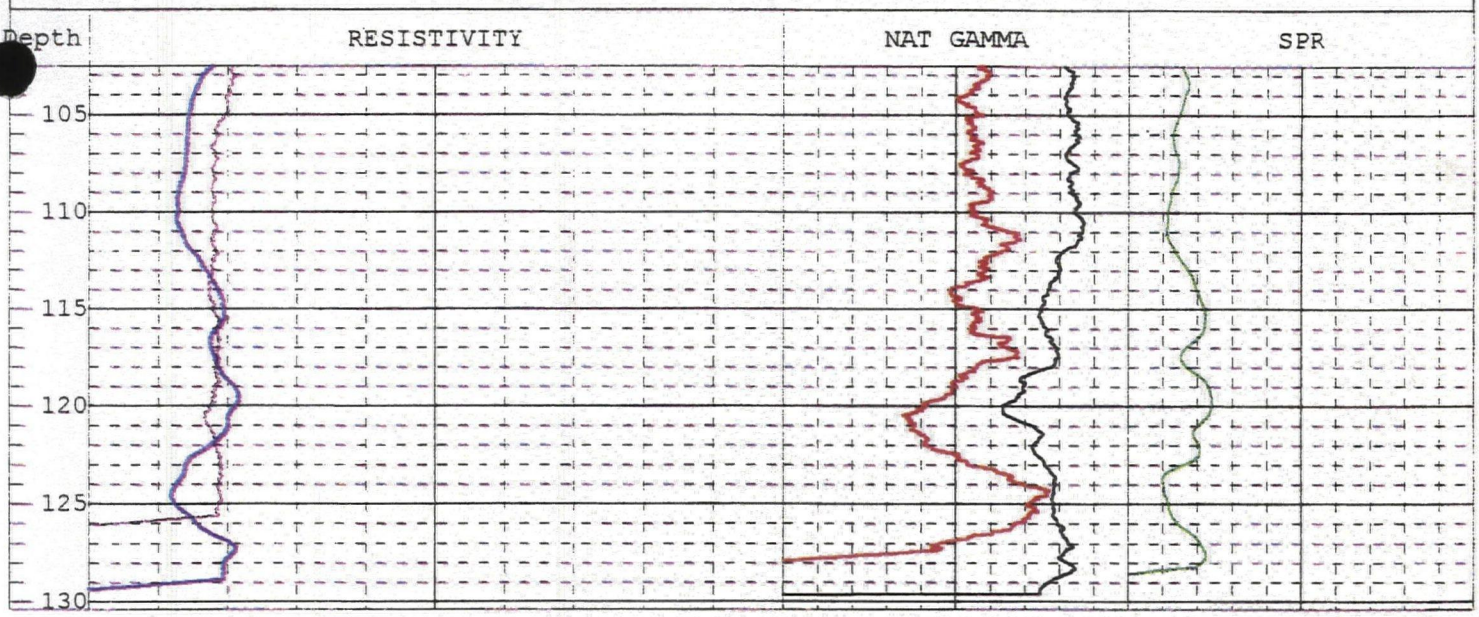
File name : C:\PCL2\DELAMO\SBL0104R.MRG
Client name : DAMES MOORE
Borehole name : SBL0104
Date : 09-6-95

Site name : DEL AMO
Main log title : E-LOG NATURAL GAMMA
Scale 1 : 1290

DEL AMO PROJECT 204TH STREET
BENTONITE AND WATER
TORRENCE, CA



Robertson Geologging Log Analysis : E-LOG NATURAL GAMMA Page 2

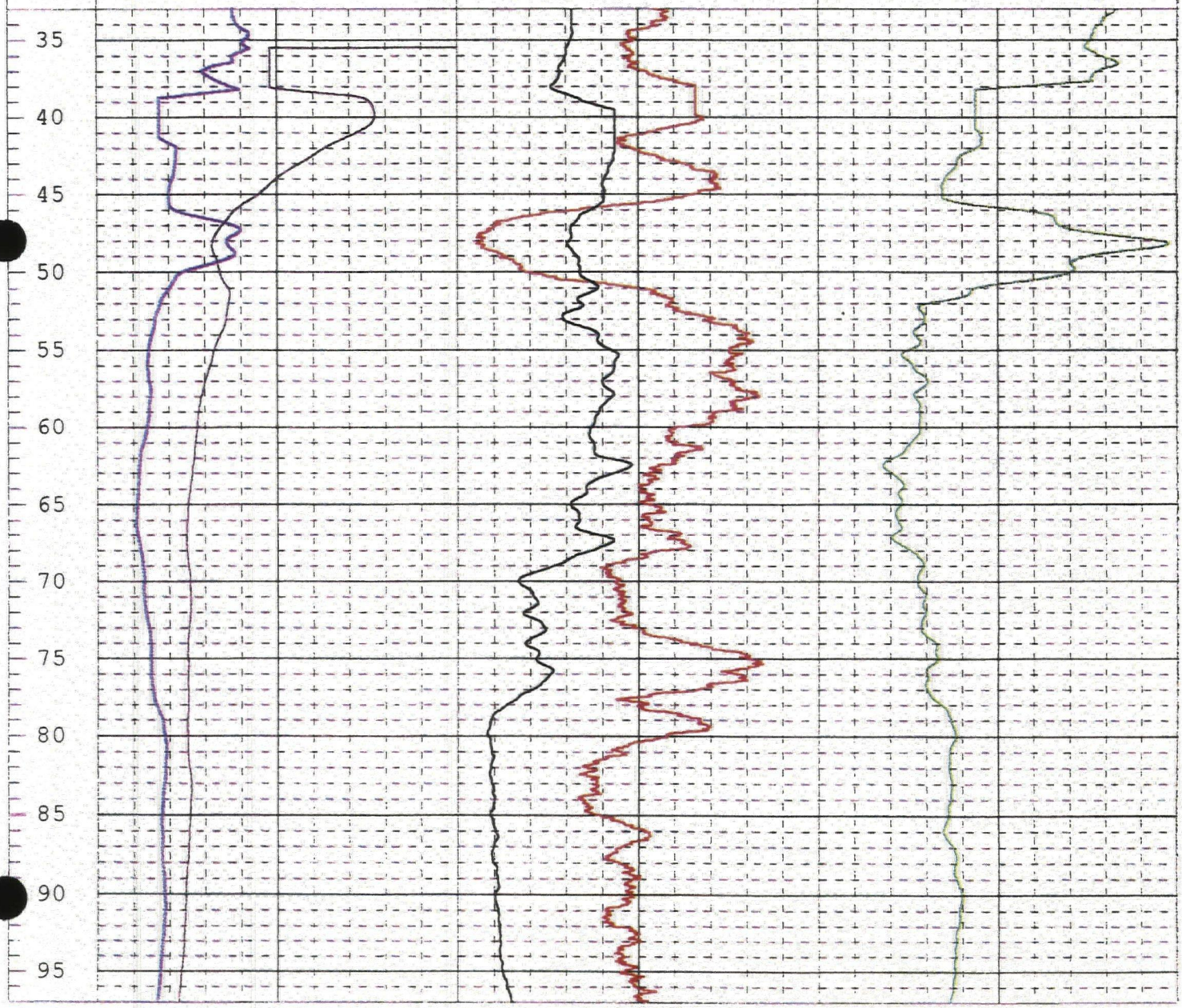


Robertson Geologging Log Analysis System 1.2i

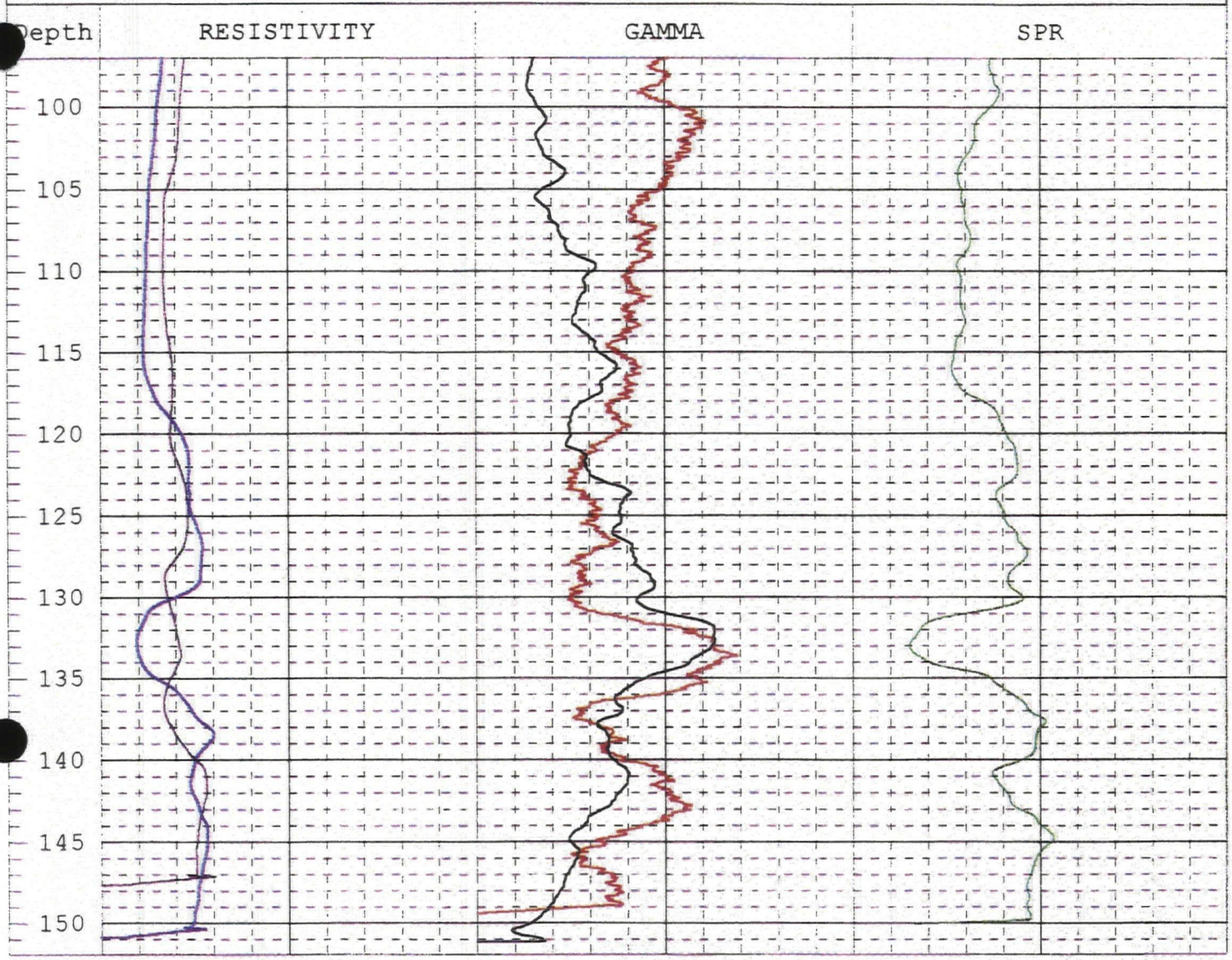
File name : C:\PCL2\DELAMO\SBL0103N.MEG Site name : DEL AMO
Client name : DAMES AND MOORE Main log title : E-LOG NATURAL GAMMA
Borehole name : SBL-0103 Scale 1 : 1290
Date : 08-31-95

DECLINING WATER LEVEL ADDED FRESH WATER
BENTONITE AND WATER
DEL AMO BETWEEN VERMONT AND NORMANDY
RESISTIVITY FLUID 16 OHM-M

Depth	RESISTIVITY			GAMMA			SPR		
	0.00	16(O M)	100.00	50.00	G(CPS)	150.00	10.00	P(OHM)	60.00
	0.00	64(O M)	100.00	875.00	SP(MV)	975.00			



Robertson Geologging Log Analysis : E-LOG NATURAL GAMMA Page 2



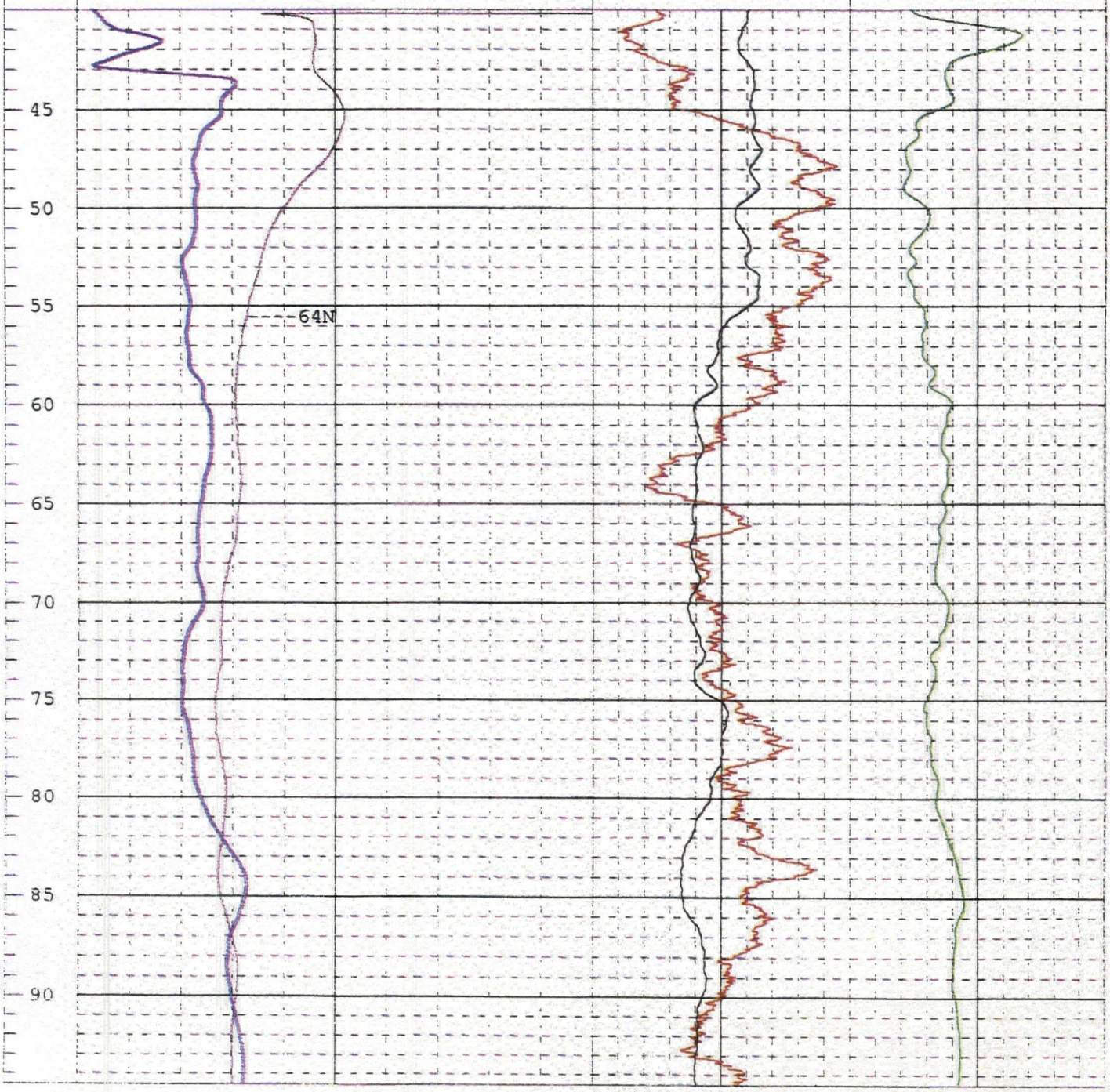
Robertson Geologging Log Analysis System 1.2i

File name : C:\PCL2\DELAMO\SBL0097O.MRG
Client name : DAMES AND MOORE
Borehole name : SBL0097
Date : 08-09-95

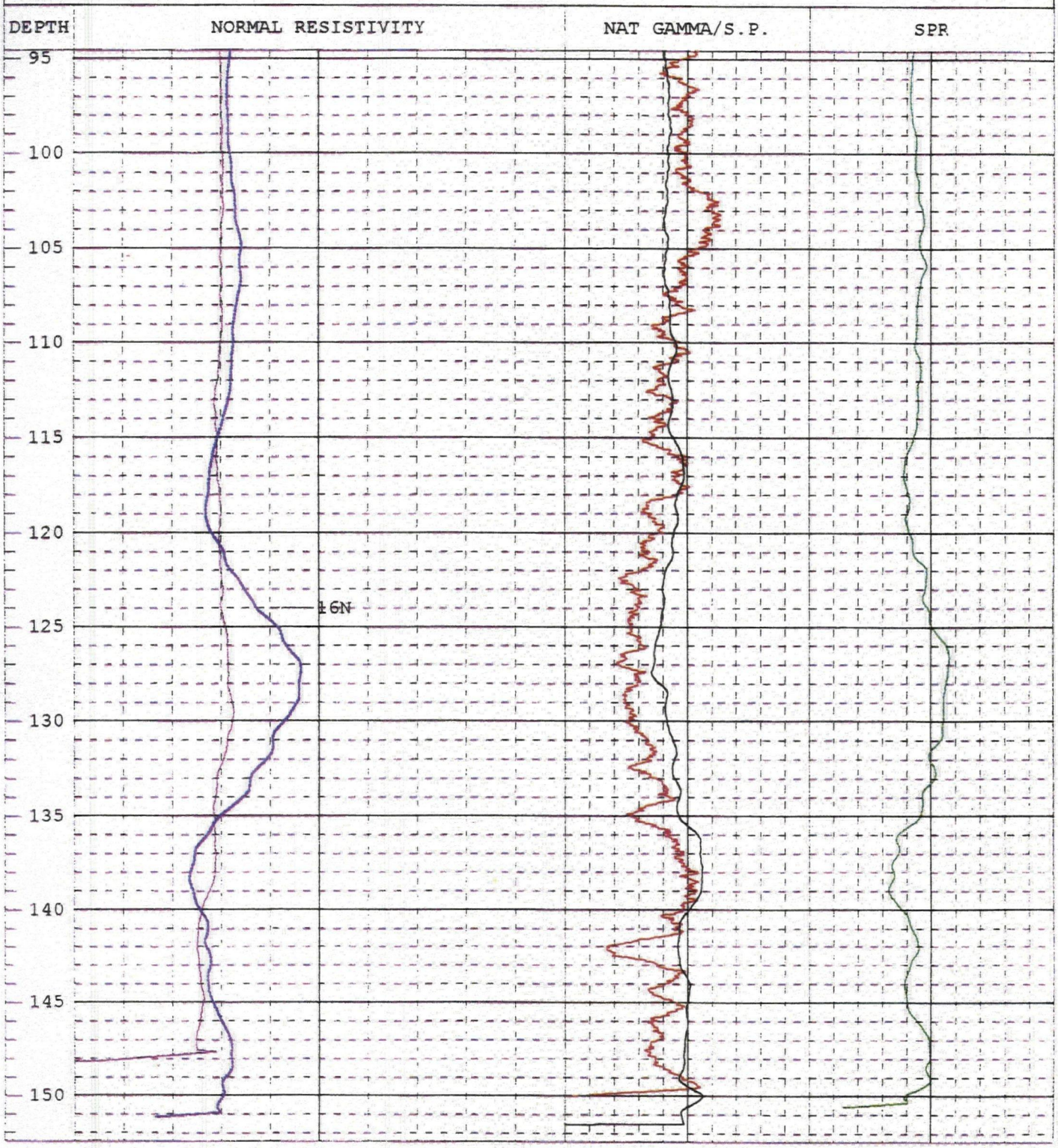
Site name : DEL AMO
Main log title : E-LOG /NATURAL GAMMA
Scale 1 : 1000

TOYOTA BUILDING
RESISTIVITY FLUID=10 OHM-METERS

DEPTH	NORMAL RESISTIVITY	NAT GAMMA/S.P.	SPR
	0.00 16 N() 100.00	50.00 CPS() 150.00	10.00 SPR() 60.00
	0.00 64 N() 100.00	850.00 SP() 950.00	



Robertson Geologging Log Analysis : E-LOG /NATURAL GAMMA Page 2



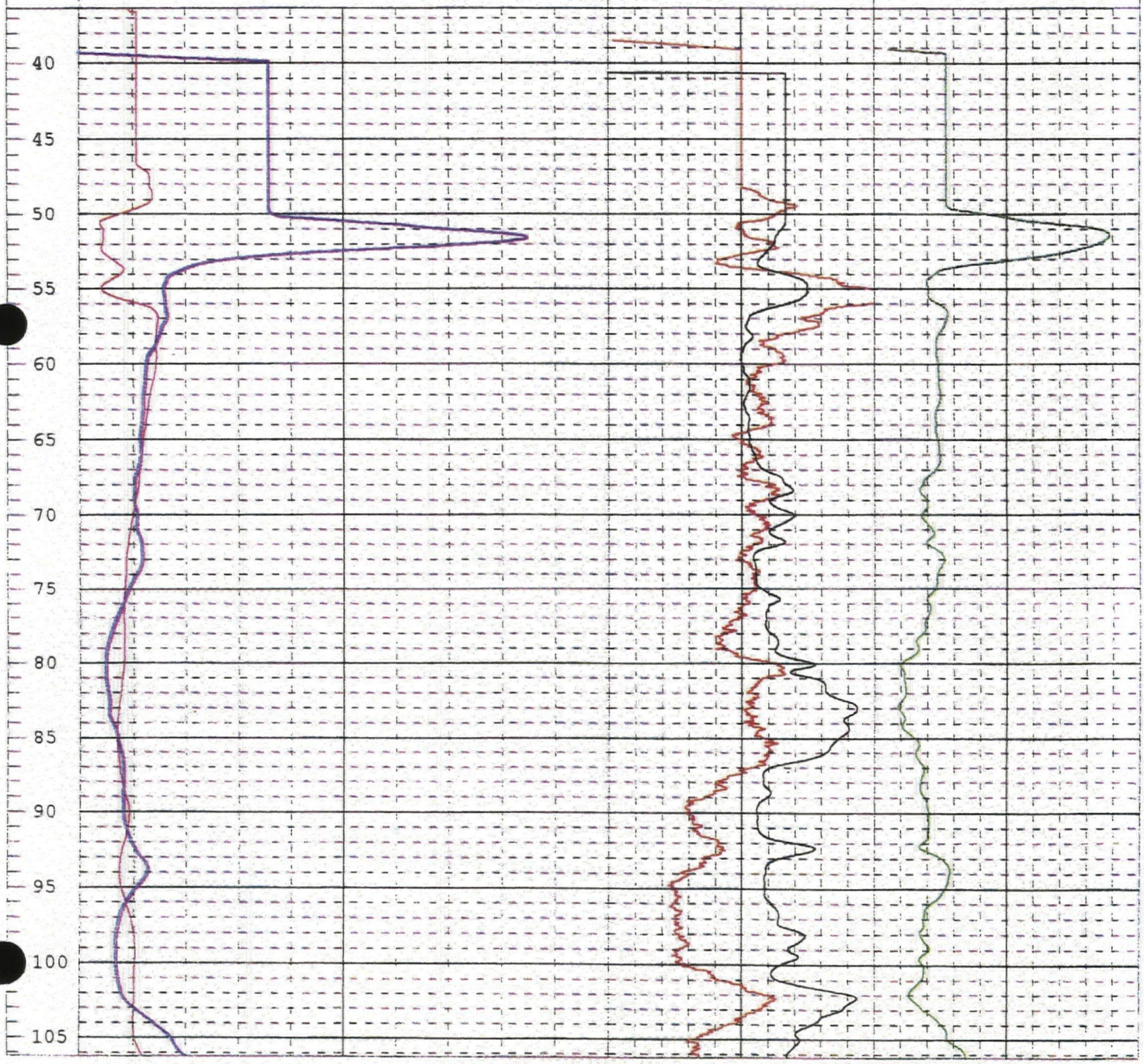
Robertson Geologging Log Analysis System 1.2i

File name : C:\PCL2\DELAMO\SBL0099.MRG
Client name : DAMES AND MOORE
Borehole name : SBL-0099
Date : 08-11-95

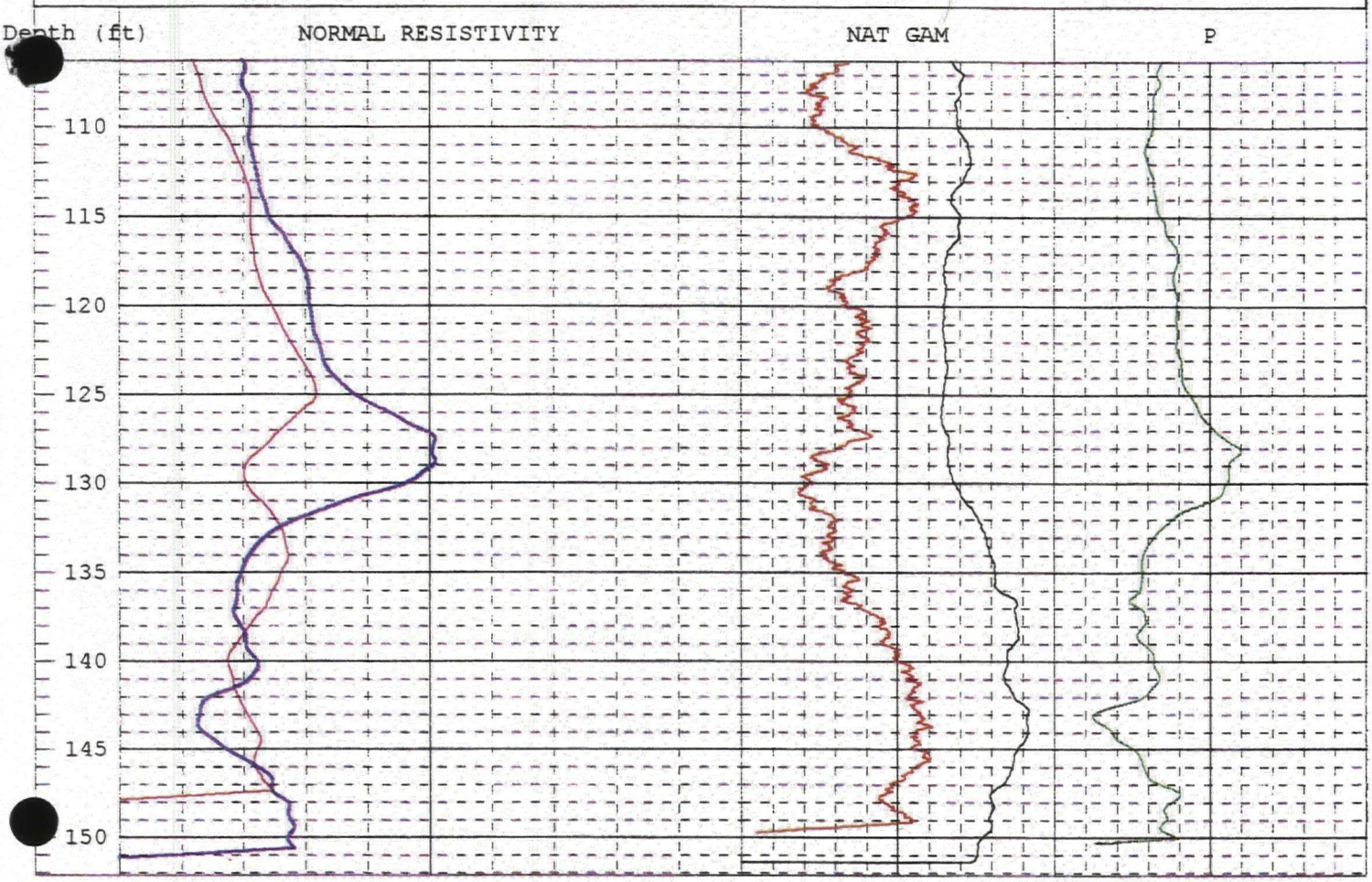
Site name : DEL AMO
Main log title : E-LOG NATURAL GAMMA
Scale 1 : 1300

BENTONITE AND WATER
COCA COLA BUILDG.
RESISTIVITY FLUID 15 OHM-M

Depth (ft)	NORMAL RESISTIVITY			NAT GAM			P		
	0.00	16(O M)	100.00	50.00	G(CPS)	150.00	10.00	P(OHM)	60.00
	0.00	64(O M)	100.00	750.00	SP(MV)	850.00			



Robertson Geologging Log Analysis : E-LOG NATURAL GAMMA Page 2



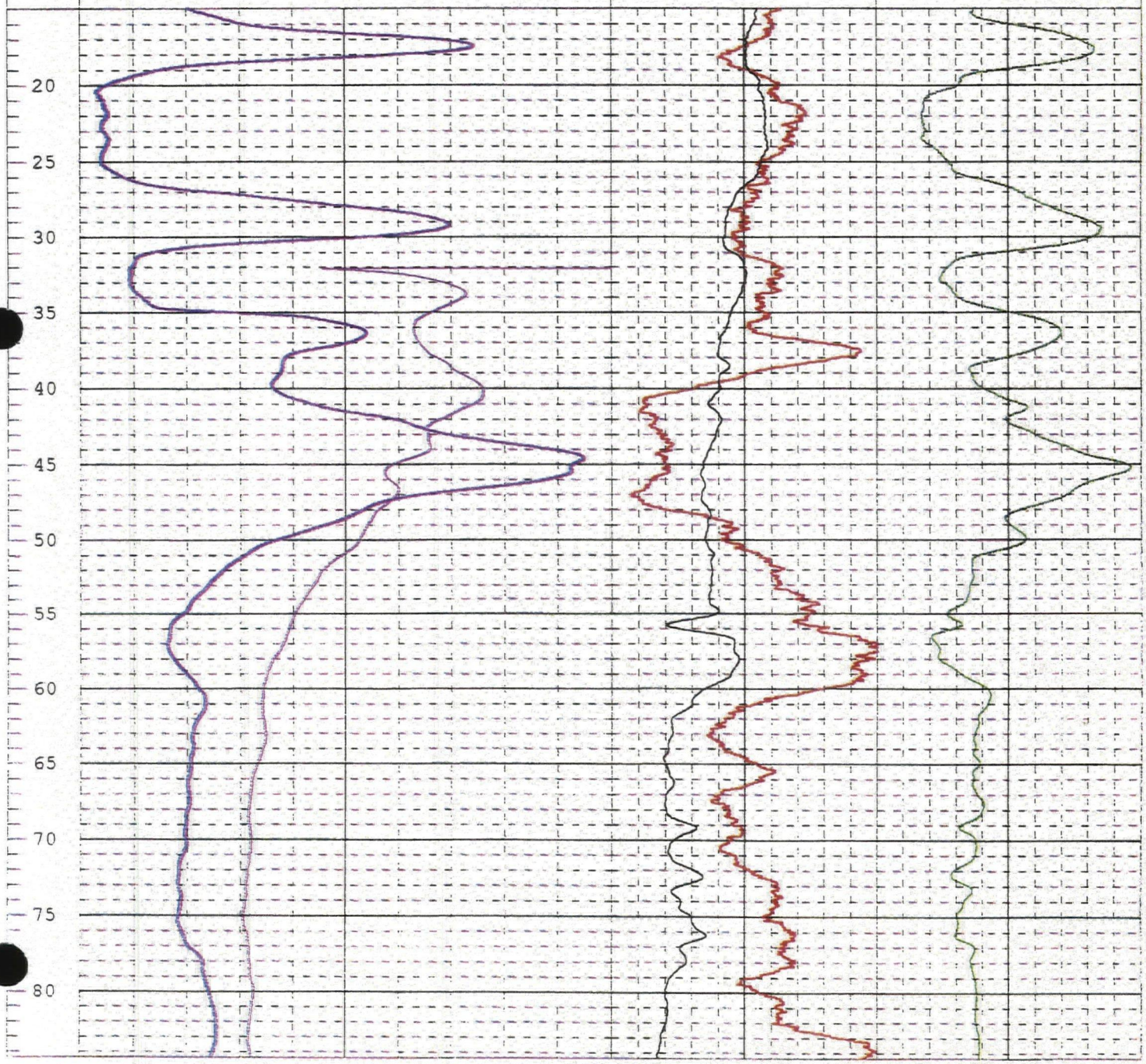
Robertson Geologging Log Analysis System 1.2i

File name : C:\PCL2\DELAMO\SBL0101.MRG
Client name : DAMES AND MOORE
Borehole name : SBL-0101
Date : 08-15-95

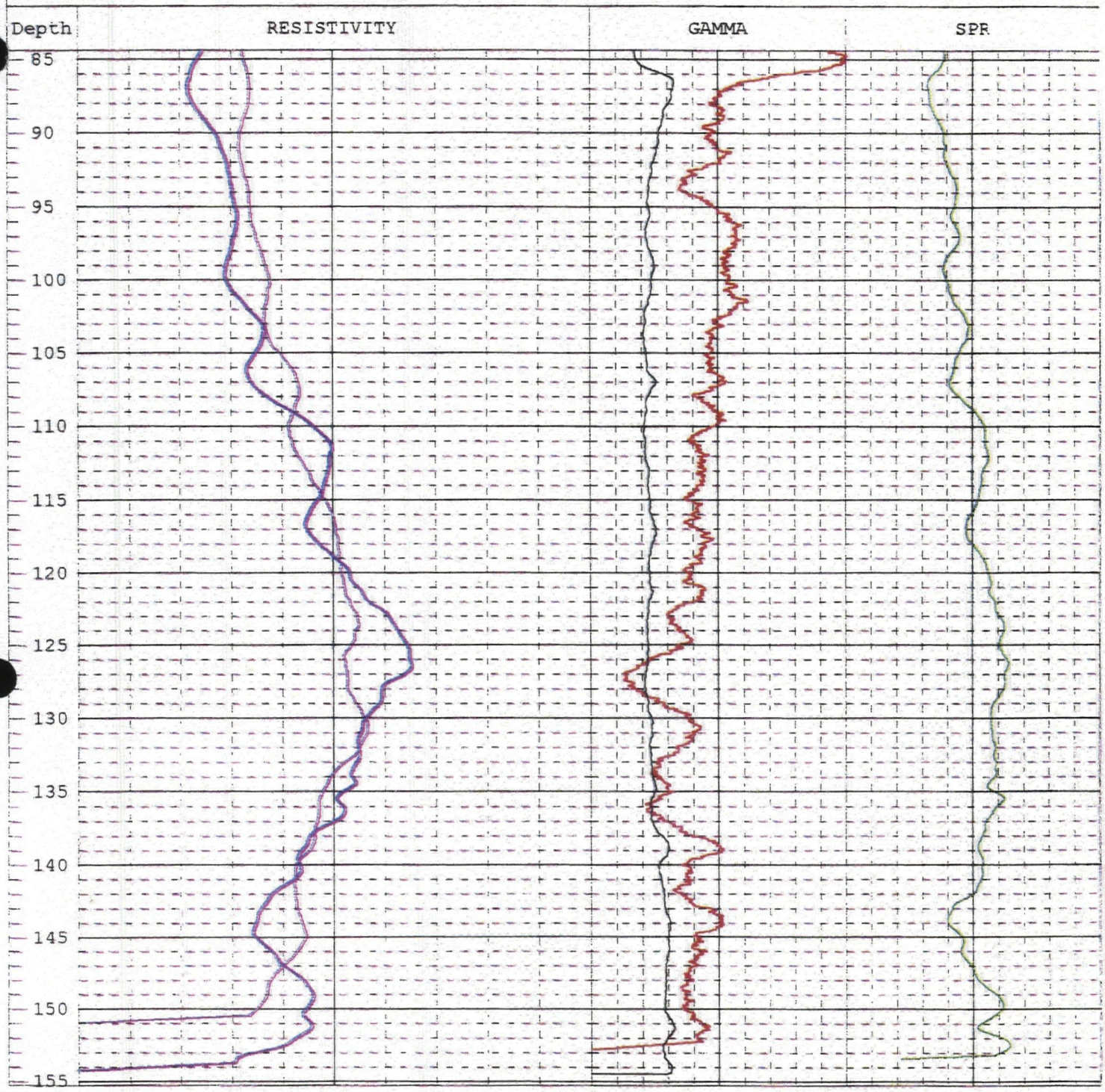
Site name : DEL AMO
Main log title : E-LOG NATURAL GAMMA
Scale 1 : 1290

CUT 10' FROM INSULATING BRIDLE
BENTONITE AND WATER
NIPPON BUILDG.
RESISTIVITY FLUID 19 OHM-M

Depth	RESISTIVITY			GAMMA			SPR		
	0.00	16(O M)	100.00	50.00	G(CPS)	150.00	10.00	P(OHM)	60.00
	0.00	64(O M)	100.00	700.00	SP(MV)	800.00			



Robertson Geologging Log Analysis : E-LOG NATURAL GAMMA Page 2



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(1 TO 77)

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