

AQUIFER TEST DATA

GL04829

WELL HC-S-T-1

TYPE OF AQUIFER TEST Step Drawdown
 HOW Q MEASURED Meter
 HOW W.L.'s MEASURED Single Recorder
 RAD./DIST. OF/FROM PUMPING WELL _____
 MEAS. POINT FOR W.L.'s 310'
 ELEVATION OF MEAS. POINT _____

PUMPING or OBSERVATION WELL
 PUMPING or RECOVERY DATA
 PAGE 1 OF 8

DEPTH OF PUMP/AIRPIPE 330'
 PUMP ON: date 10/4/80 time 0745
 PUMP OFF: date 10/4/80 time 2017
 DURATION OF AQUIFER TEST _____

LOCATION UNIT CREEK TIA RESERVOIR
 PERSONNEL DAVID A WILLIAMS

TIME				WATER LEVEL DATA					DISCHARGE		RECORDED BY	COMMENTS
t = _____		at t' = 0		STATIC WATER LEVEL <u>237.34</u>					READING	Q		
DAY	CLOCK TIME	t	t'	READING	CONVERSIONS OF CORRECTIONS	WATER LEVEL	s or s'					
	0745	0		20.97	-4.80	255.52	18.27		75	DW	Pump on 1450 gpm	
	0746	1		22.33	-4.80	252.43	15.08		1	DW		
	0747	2		23.09	-4.80	250.65	13.30			DW		
	0748	3		23.45	-4.80	249.80	12.45			DW		
	0749	4		23.42	-4.80	249.88	12.53			DW		
	0750	5		23.38	-4.80	249.97	12.62			DW		
	0751	6		23.29	-4.79	249.21	12.86			DW		
	0752	7		23.22	-4.79	249.37	13.02			DW		
	0753	8		23.23	-4.78	249.34	13.00			DW		
	0754	9		23.21	-4.78	249.39	13.04			DW		
	0755	10		23.17	-4.78	249.48	13.13			DW		
	0756	11		23.14	-4.78	249.55	13.20			DW		
	0757	12		23.11	-4.76	249.64	13.29			DW		
	0758	13		23.06	-4.78	249.74	13.39			DW		
	0759	14		23.06	-4.77	249.74	13.39			DW		
	0800	15		23.08	-4.77	249.70	13.35			DW		
	0801	16		23.09	-4.77	249.61	13.32			DW		
	0802	17		23.03	-4.77	250.81	13.46			DW		
	0803	18		22.99	-4.77	250.90	13.55			DW		
	0804	19		22.95	-4.77	250.00	13.65			DW		
	0805	20		22.94	-4.77	250.02	13.67			DW		
	0806	21		22.99	-4.77	250.90	13.55			DW		
	0807	22		22.97	-4.77	250.96	13.61		3	DW		
	0808	23		22.96	-4.77	250.98	13.63		5	DW		
	0809	24		22.98	-4.77	250.94	13.59			DW		
	0810	25		22.96	-4.77	250.98	13.63			DW		
	0811	26		22.98	-4.77	250.94	13.59			DW		
	0812	27		22.96	-4.77	250.98	13.63			DW		
	0813	28		22.91	-4.77	251.09	13.74			DW		
	0814	29		22.90	-4.77	251.10	13.75			DW		
	0815	30		22.88	-4.77	251.16	13.81			DW		
	0820	35	ok	22.89	-4.76	251.16	13.81			DW		
	0825	40		22.89	-4.77	251.28	13.93			DW		
	0830	45		22.91	-4.77	251.12	13.77			DW		
	0835	50		22.85	-4.77	251.28	13.93			DW		
	0840	55		22.81	-4.77	251.33	13.98			DW		
	0845	60		22.81	-4.78	251.33	13.98			DW		
	0850	65		22.80	-4.78	251.40	14.05			DW		
	0855	70		22.81	-4.79	251.33	13.98			DW		
	0900	75		22.82	-4.78	251.40	13.95			DW		
	0905	80		22.81	-4.78	251.47	14.02		75	DW		

AQUIFER TEST DATA

WELL HC-S-F1

PUMPING or OBSERVATION WELL

PUMPING or RECOVERY DATA

PAGE 2 OF

TYPE OF AQUIFER TEST Step Drawdown

HOW Q MEASURED Meter

HOW W.L.'s MEASURED Sinco Recorder

RAD./DIST. OF/FROM PUMPING WELL

MEAS. POINT FOR W.L.'s 310'.00

ELEVATION OF MEAS. POINT

DEPTH OF PUMP/AIRPIPE 330'

PUMP ON: date 10/4/80 time 0745

PUMP OFF: date time

DURATION OF AQUIFER TEST

LOCATION HOT CROSS LN & N.W. 10th
PERSONNEL D. Williams

		TIME		WATER LEVEL DATA				DISCHARGE		RECORDED BY	COMMENTS
		t =	at t' = 0	STATIC WATER LEVEL <u>237.34</u>				READINGS	Q		
DAY	CLOCK TIME	t	t'	READING	EXCESSIVE CORRECTIONS	WATER LEVEL	s or s'	READINGS	Q		
	0910	85		22.81	-4.79	251.33	13.98	75	75	DW	
	0915	90		22.80	-4.79	251.35	14.00	↑	↑	DW	
	0945	120		22.78	-4.79	251.39	14.04	↑	↑	DW	
	1015	150		22.82	-4.79	251.30	13.95	↓	↓	DW	
	1045	180		22.76	-4.79	251.44	14.09	75	75	DW	
	1045	181		21.58	-4.79	254.21	16.86	125	125	DW Pump increased	
	1047	182		20.26	-4.78	257.30	19.95	↑	↑	DW 1550 rpm	
	1048	183		19.92	-4.79	258.10	20.75	↑	↑	DW	
	1049	184		19.67	-4.79	258.68	21.33			DW	
	1050	185		19.63	-4.79	258.78	21.43			DW	
	1051	186		19.63	-4.79	258.78	21.43			DW	
	1052	187		19.62	-4.79	258.80	21.45			DW	
	1053	188		19.60	-4.79	258.85	21.50			DW	
	1054	189		19.63	-4.79	258.78	21.43			DW	
	1055	190		19.66	-4.79	258.70	21.35			DW	
	1056	191		19.62	-4.79	258.80	21.45			DW	
	1057	192		19.62	-4.79	258.80	21.45			DW	
	1057	193		19.26	-4.79	259.17	21.82			DW	
	1057	194		19.43	-4.79	259.25	21.90			DW	
	1100	195		19.45	-4.79	259.20	21.85			DW	
	1101	196		19.44	-4.79	259.22	21.87			DW	
	1102	197		19.41	-4.79	259.24	21.94			DW	
	1103	198		19.43	-4.79	259.25	21.90			DW	
	1105	199		19.40	-4.79	259.32	21.97			DW	
	1105	200		19.39	-4.79	259.34	21.99			DW	
	1106	201		19.39	-4.79	259.34	21.99			DW	
	1107	202		19.41	-4.79	259.29	21.94			DW	
	1108	203		19.37	-4.79	259.39	22.04	↓	↓	DW	
	1109	204		19.40	-4.79	259.32	21.97	↓	↓	DW	
	1110	205		19.40	-4.79	259.32	21.97			DW	
	1111	206		19.40	-4.79	259.32	21.97			DW	
	1112	207		19.41	-4.79	259.29	21.94			DW	
	1113	208		19.38	-4.79	259.36	21.95			DW	
	1114	209		19.38	-4.79	259.36	22.01			DW	
	1115	210		19.40	-4.79	259.32	22.07			DW	
	1120	215		19.35	-4.79	259.45	22.08			DW	
	1125	220		19.38	-4.79	259.36	22.01			DW	
	1130	225		19.32	-4.79	259.50	22.15			DW	
	1135	230		19.37	-4.79	259.39	22.04	↓	↓	DW	
	1140	235		19.35	-4.80	259.41	22.06	125	125	DW	

AQUIFER TEST DATA

WELL Hc-5-T-1
 PUMPING or OBSERVATION WELL
 PUMPING or RECOVERY DATA
 PAGE 4 OF 8

TYPE OF AQUIFER TEST Step drawdown
 HOW Q MEASURED Water
 HOW W.L.'s MEASURED Sinco Recorder
 RAD./DIST. OF/FROM PUMPING WELL:
 MEAS. POINT FOR W.L.'s 310.00
 ELEVATION OF MEAS. POINT _____

DEPTH OF PUMP/AIRPIPE _____
 PUMP ON: date 10/4/80 time 0745
 PUMP OFF: date 10/4/80 time 2017
 DURATION OF AQUIFER TEST 12 HRS.

LOCATION Hot Creek 7th St 1000
 PERSONNEL John A. Williams

PROJECT 14-240-03-677

TIME				WATER LEVEL DATA				DISCHARGE		RECORDED BY	COMMENTS
DAY	CLOCK TIME	t	t'	READING	CONVERSIONS OF CORRECTIONS	WATER LEVEL	s or s'	READING	Q		
						STATIC WATER LEVEL <u>237.34</u>					
	1355	370		14.97	-4.82	269.65	32.30	175	175	DN	
	1400	375		14.93	-4.82	269.74	32.39	↑	↑	DN	
	1405	380		14.94	-4.82	269.75	32.40			DN	
	1410	385		14.96	-4.82	269.67	32.32			DN	
	1415	390		14.95	-4.83	269.69	32.34			DN	
	1420	395		15.02	-4.83	269.53	32.18	↓	↓	DN	
	1425	400		15.02	-4.83	269.53	32.18	↓	↓	DN	
	1430	405		14.90	-4.83	269.81	32.46			DN	
	1435	410		14.88	-4.83	269.86	32.51			DN	
	1440	415		14.88	-4.83	269.86	32.51			DN	
	1445	420		14.84	-4.83	269.95	32.60			DN	
	1515	450		14.81	-4.83	270.02	32.67	↓	↓	DN	
	1545	480		14.79	-4.84	270.04	32.69	175	175	DN	
	1546	481		13.98	-4.83	272.07	34.62	225	225	DN	Pump increased to 1800 rpm
	1547	482		12.04	-4.84	276.49	39.14	↑	↑	DN	
	1548	483		11.21	-4.84	278.43	41.03			DN	
	1549	484		10.91	-4.83	279.16	41.81			DN	
	1550	485		10.79	-4.84	279.41	42.06			DN	
	1551	486		10.75	-4.84	279.51	42.16			DN	
	1552	487		10.71	-4.84	279.60	42.25			DN	
	1553	488		10.68	-4.84	279.67	42.32			DN	
	1554	489		10.67	-4.84	279.70	42.35			DN	
	1555	490		10.63	-4.84	279.79	42.44			DN	
	1556	491		10.63	-4.84	279.79	42.44			DN	
	1557	492		10.61	-4.84	279.84	42.49			DN	
	1558	493		10.56	-4.84	279.95	42.60			DN	
	1559	494		10.54	-4.84	279.88	42.53			DN	
	1600	495		10.54	-4.84	279.88	42.53			DN	
	1601	496		10.54	-4.84	280.00	42.65			DN	
	1602	497		10.54	-4.84	280.00	42.65	↓	↓	DN	
	1603	498		10.52	-4.84	280.05	42.70			DN	
	1604	499		10.52	-4.84	280.05	42.70			DN	
	1605	500		10.56	-4.84	279.95	42.60			DN	
	1606	501		10.52	-4.85	280.05	42.70			DN	
	1607	502		10.54	-4.84	280.00	42.65			DN	
	1608	503		10.52	-4.85	280.05	42.70			DN	
	1609	504		10.48	-4.84	280.14	42.79			DN	
	1610	505		10.52	-4.84	280.05	42.70			DN	
	1611	506		10.47	-4.84	280.16	42.81	↓	↓	DN	
	1612	507		10.50	-4.84	280.29	42.74	225	225	DN	

AQUIFER TEST DATA

WELL HC-S-F1
 PUMPING or OBSERVATION WELL
 PUMPING or RECOVERY DATA
 PAGE 5 OF 8

TYPE OF AQUIFER TEST Steady drawdown
 HOW Q MEASURED meter
 HOW W.L.'s MEASURED Sinco Recorder
 RAD./DIST. OF/FROM PUMPING WELL _____
 MEAS. POINT FOR W.L.'s 310.0
 ELEVATION OF MEAS. POINT _____

DEPTH OF PUMP/AIRPIPE _____
 PUMP ON: date 10/4/80 time 0745
 PUMP OFF: date 10/4/80 time 2017
 DURATION OF AQUIFER TEST _____

LOCATION 16E CRASS IN THE 1040
 PERSONNEL DAVID A WILLIAMS

		TIME		WATER LEVEL DATA				DISCHARGE		RECORDED BY	COMMENTS
		t = _____	at t' = 0	STATIC WATER LEVEL <u>237.34</u>				READING	Q		
DAY	CLOCK TIME	t	t'	READING	CONVERSION CORRECTIONS	WATER LEVEL	s or s'				
	1613	508		10.51	-4.84	280.07	42.72	275	225	DN	
	1619	509		10.51	-4.84	280.07	42.72	A	A	DN	
	1615	510		10.52	-4.84	280.05	42.70				
	1616	511		10.43	-4.84	280.26	42.91				
	1621	516		10.38	-4.84	280.38	43.53				
	1626	521		10.40	-4.85	280.33	42.98				
	1631	526		10.35	-4.84	280.45	43.10				
	1636	531		10.31	-4.85	280.54	43.14				
	1641	536		10.30	-4.85	280.56	43.21	50	50	Temp = 20°C	
	1643	541		10.28	-4.85	280.61	43.26				
	1651	546		10.27	-4.85	280.63	43.28				
	1656	551		10.30	-4.85	280.56	43.21				
	1701	556		10.31	-4.85	280.54	43.19				
	1706	561		10.28	-4.85	280.61	43.26				
	1711	566		10.27	-4.85	280.63	43.28				
	1716	571		10.27	-4.85	280.75	43.40	V	V		
	1746	576		10.13	4.85	280.96	43.61	275	225		
	1747	577		9.08	Corr.			275	275	Pumps increased to 1950 rpm	
	1748	578		7.68	4.85	286.70	49.35	A	275		
	1749	579		6.95	-4.85	288.41	51.06		275		
	1750	580		6.69	-4.85	289.02	51.67		275		
	1751	581		6.57	-4.85	289.30	51.95		275		
	1752	582		6.50	-4.85	289.47	52.12		275		
	1753	583		6.43	-4.85	289.63	52.28		275		
	1754	584		6.36	-4.85	289.79	52.44		275		
	1755	585		6.36	-4.85	289.79	52.44	Corr	275		
	1756	586		6.40	-4.85	289.70	52.35		275		
	1757	587		6.39	-4.85	289.75	52.40		275		
	1758	588		6.35	-4.85	289.82	52.47		275		
	1759	589		6.33	-4.85	289.86	52.51		275		
	1800	590		6.27	-4.85	290.00	52.65		275		
	1801	591		6.32	-4.85	289.89	52.54		275		
	1802	592		6.28	-4.85	289.98	52.63		275		
	1803	593		6.28	-4.85	289.98	52.63		275		
	1804	594		6.29	-4.85	289.96	52.61		275		
	1805	595		6.28	-4.85	289.98	52.63		275		
	1806	596		6.25	-4.85	290.05	52.70		275		
	1807	597		6.24	-4.85	290.07	52.72		275		
	1808	598		6.23	-4.85	290.10	52.75		275		
	1809	599		6.23	-4.85	290.10	52.75	275	275		

PROJECT 10-43-80-1

AQUIFER TEST DATA

WELL HC-S-T-1

PUMPING or OBSERVATION WELL

PUMPING or RECOVERY DATA

PAGE 6 OF 8

TYPE OF AQUIFER TEST Step drawdown
 Q MEASURED Meter
 W.L.'s MEASURED Sinco Recorder
 DIST. OF FROM PUMPING WELL _____
 MEAS. POINT FOR W.L.'s 277.0
 ELEVATION OF MEAS. POINT _____

DEPTH OF PUMP/AIRPIPE _____
 PUMP ON: date 10/4/80 time 0745
 PUMP OFF: date 10/4/80 time 2017
 DURATION OF AQUIFER TEST 726 min +

TIME				WATER LEVEL DATA				DISCHARGE		RECORDED BY	COMMENTS
t = _____ at t' = 0				STATIC WATER LEVEL <u>237.34</u>				READ-ING	Q		
DAY	CLOCK TIME	t	t'	READING	CONVERSIONS OF CORRECTIONS	WATER LEVEL	s or s'				
	1810	600		6.20	-4.85	290.17	52.82	275	275	DW	
	1811	601		6.23	-4.85	290.10	52.75	↑	↑	DW	
	1812	602		6.23	-4.85	290.10	52.75	↑	↑	DW	
	1813	603		6.24	-4.85	290.07	52.72	↑	↑	DW	
	1814	604		6.27	-4.85	290.00	52.65	↑	↑	DW	
	1815	605		6.21	-4.85	290.14	52.79	↑	↑	DW	
	1816	606		6.21	-4.85	290.14	52.79	↑	↑	DW	
	1821	611		6.10	-4.85	290.40	53.05	↑	↑	DW	
	1826	616		6.05	-4.85	290.52	53.17	↑	↑	DW	
	1831	621		6.06	-4.85	290.50	53.15	↑	↑	DW	
	1836	626		6.01	-4.85	290.61	53.26	↑	↑	DW	
	1841	631		5.94	-4.85	290.78	53.43	↑	↑	DW	
	1846	636		5.89	-4.85	290.89	53.54	↑	↑	DW	
	1851	641		5.89	-4.85	290.89	53.54	↑	↑	DW	
	1856	646		5.85	-4.85	290.99	53.64	↑	↑	DW	
	1901	651		5.75	-4.85	291.22	53.87	↑	↑	DW	
	1906	656		5.79	-4.85	291.13	53.78	↑	↑	DW	
	1911	661		5.75	-4.85	291.22	53.87	275	275	DW	
	1916	666		5.71	-4.85	291.32	53.97	285	285	DW Engine turned down to	
	1946	696		7.64	-4.85	286.79	49.54	275	275	DW 1900 rpm	
	2016	726		7.57	-4.85	287.00	49.65	275	275	DW	
	2017	727	0	7.54	-4.84	287.03	49.68			Pump off	
	2018	728	1	17.27	-4.94	264.23	26.88				
	2019	729	2	(T.R.P.E. RIPPER)							
	2020	730	3	29.52	-4.85	235.53	-1.22				
	2021	731	4	28.54	-4.85	237.83	.58				
	2022	732	5	28.45	-4.85	238.04	.69				
	2023	733	6	28.47	-4.85	237.99	.64				
	2024	734	7	28.47	-4.85	237.99	.64				
	2025	735	8	28.43	-4.85	238.09	.74				
	2026	736	9	28.44	-4.85	238.06	.71				
	2027	737	10	28.45	-4.85	238.04	.69				
	2028	738	11	28.47	-4.85	237.99	.64				
	2029	739	12	28.47	-4.85	237.99	.64				
	2030	740	13	28.48	-4.85	237.97	.62				
	2031	741	14	28.49	-4.85	237.95	.60				
	2032	742	15	28.49	-4.85	237.95	.60				
	2033	743	16	28.50	-4.85	237.92	.57				
	2034	744	17	28.50	-4.85	237.92	.57				
	2035	745	18	28.50	-4.85	237.92	.57				

PERSONNEL DAVID A. WILSON

AQUIFER TEST DATA

WELL HC-S-T-1
 PUMPING or OBSERVATION WELL
 PUMPING or RECOVERY DATA
 PAGE 1 OF 5

TYPE OF AQUIFER TEST Constant Discharge @ 225 gpm
 HOW Q MEASURED Meter
 HOW W.L.'s MEASURED Sinco Recorder
 RAD./DIST. OF/FROM PUMPING WELL _____
 MEAS. POINT FOR W.L.'s 310
 ELEVATION OF MEAS. POINT _____

DEPTH OF PUMP/AIRPIPE _____
 PUMP ON: date 10/5/80 time 1646
 PUMP OFF: date 10/9/80 time 1649
 DURATION OF AQUIFER TEST _____

LOCATION HOT CREEK IN STE 1000
 PERSONNEL PAUL A. MCELROY

PROJECT 79-290-03-021

TIME				WATER LEVEL DATA					DISCHARGE		RECORDED BY	COMMENTS
t = _____ at t' = 0		STATIC WATER LEVEL <u>237.10</u>			READING	CONVERSIONS OF CORRECTIONS	WATER LEVEL	s or s'	READING	Q		
DAY	CLOCK TIME	t	t'	READING							CONVERSIONS OF CORRECTIONS	WATER LEVEL
	1645	0		28.81	-4.90	237.13	.03		235	235	DW	
	1646	0		28.82	-4.90	237.10	.00				DW	Pump on
	1647	1		19.70	-4.90	258.48	21.38				DW	1760 gpm
	1648	2		15.20	-4.90	269.02	31.92				DW	
	1649	3		12.71	-4.90	274.85	37.75				DW	
	1650	4		11.30	-4.90	277.00	39.90				DW	
	1651	5		11.36	-4.90	278.04	40.94				DW	
	1652	6		11.19	-4.89	278.43	41.33				DW	
	1653	7		11.02	-4.84	278.83	41.73				DW	
	1654	8		10.80	-4.88	279.37	42.27				DW	
	1655	9		10.63	-4.88	279.77	42.67				DW	
	1656	10		10.46	-4.86	280.17	43.07				DW	
	1657	11		10.42	-4.88	280.26	43.16				DW	
	1658	12		10.37	-4.87	280.38	43.28				DW	
	1659	13		10.32	-4.87	280.50	43.40				DW	
	1700	14		10.25	-4.87	280.66	43.56				DW	
	1701	15		10.20	-4.87	280.78	43.68				DW	
	1702	16		10.09	-4.87	281.05	43.95				DW	
	1703	17		10.11	-4.87	280.98	43.88				DW	
	1704	18		10.13	-4.87	280.94	43.84				DW	
	1705	19		10.11	-4.87	281.05	43.95				DW	
	1706	20		10.07	-4.87	281.08	43.98				DW	
	1707	21		10.00	-4.87	281.24	44.14	194000			DW	
	1708	22		9.98	-4.87	281.39	44.29				DW	
	1709	23		9.96	-4.87	281.37	44.27				DW	
	1710	24		9.97	-4.87	281.36	44.26				DW	
	1711	25		9.97	-4.86	281.34	44.24				DW	
	1712	26		9.98	-4.86	281.41	44.31				DW	
	1713	27		9.85	-4.87	281.57	44.47				DW	
	1714	28		9.85	-4.86	281.62	44.52				DW	
	1715	29		9.77	-4.86	281.81	44.71				DW	
	1716	30		9.76	-4.87	281.81	44.71				DW	
	1721	35		9.71	-4.87	281.92	44.87				DW	
	1726	40		9.80	-4.87	281.71	44.61				DW	
	1731	45		9.73	-4.87	281.88	44.78				DW	
	1736	50		9.67	-4.87	282.02	44.92				DW	
	1741	55		9.65	-4.87	282.06	44.96				DW	
	1746	60		9.65	-4.86	282.06	44.96				DW	
	1751	65		9.67	-4.87	282.02	44.92				DW	
	1756	70		9.71	-4.87	281.92	44.82				DW	
	1801	75		9.33	-4.87	280.05	42.95		240	240	DW	Recovery time 1 hr
									235	235	DW	

AQUIFER TEST DATA

WELL HC-S-T-1
 PUMPING or OBSERVATION WELL
 PUMPING or RECOVERY DATA
 PAGE 2 OF 5

TYPE OF AQUIFER TEST Constant Discharge @ 235 gpm
 HOW Q MEASURED Meter
 HOW W.L.'s MEASURED Sinco Recorder
 RAD./DIST. OF/FROM PUMPING WELL _____
 MEAS. POINT FOR W.L.'s 310.00'
 ELEVATION OF MEAS. POINT _____

DEPTH OF PUMP/AIRPIPE _____
 PUMP ON: date 10/5/80 time 1646
 PUMP OFF: date 10/9/80 time 1649
 DURATION OF AQUIFER TEST _____

LOCATION HOICKMAN IN STE 10AS
 PERSONNEL David A. Williams

PROJECT 79-210-43-621

TIME				WATER LEVEL DATA				DISCHARGE		RECORDED BY	COMMENTS
DAY	CLOCK TIME	t	t'	READING	CONVERSIONS CORRECTIONS	WATER LEVEL	s or s'	READING	Q		
	1806	30		10.39	-4.87	280.33	43.23	235	235	DN	
	1811	35		10.38	-4.88	280.35	43.15	235	235	DN	
	1816	40		10.29	-4.98	280.57	43.47	235	235	DN	
	1849	120		10.31	-4.88	280.52	43.42	240	240	DN	Temp = 19°C
	1918	150		10.21	-4.88	280.75	43.65	243	243	DN	
	1948	180		10.14	-4.88	280.92	43.82	248	248	DN	
	2018	210		10.09	-4.88	281.03	43.93	250	250	DN	Engine front starts
	2048	240		11.07	-4.88	278.74	41.64	235	235	DN	1680 RPP
	2118	270		10.95	-4.88	279.02	41.92	235	235	DN	
	2148	300		11.00	-4.89	278.88	41.78			DN	
	2248	360		10.87	-4.89	279.18	42.08			DN	Temp = 19°C
	2348	420		10.88	-4.89	279.16	42.06			DN	
	0048	480		10.77	-4.89	279.42	42.32			DN	
	0148	540		10.78	-4.89	279.39	42.29			DN	
	0248	600		10.74	-4.89	279.49	42.39			DN	
	0348	660		10.61	-4.89	279.79	42.69			DN	
	0448	720		10.52	-4.89	280.00	42.90			DN	
	0548	780		10.55	-4.88	279.96	42.86			DN	
	0648	840		11.04	-4.88	278.81	41.71			DN	Pump hand down
	0748	900		11.01	-4.88	278.86	41.76			DN	Temp = 19°C
	0848	960		11.14	-4.87	278.57	41.47			DN	
	0948	1020		11.17	-4.87	278.48	41.38			DN	
	1048	1080		11.27	-4.87	278.27	41.17	235	235	DN	
	1148	1140		11.29	-4.88	278.22	41.12	230	230	DN	
	1248	1200		11.27	-4.88	278.27	41.17	235	235	DN	Pump hand down
	1348	1260		9.30	-4.88	282.89	45.79	235	235	DN	to 1730 rpm
	1448	1320		9.32	-4.88	282.82	45.72	"	"	DN	
	1548	1380		9.34	-4.88	283.00	45.90	"	"	DN	
	1648	1440		9.27	-4.91	283.91	45.81	235	235	DN	
	1748	1500		9.25	-4.91	283.96	45.86	240	240	DN	
	1848	1560		9.11	-4.91	283.28	46.18	245	245	DN	Pump hand down
	1948	1620		10.57	-4.90	279.89	42.79	235	235	DN	to 1700 rpm
	2048	1720		10.56	-4.90	279.92	42.82			DN	
	2148	1820		10.35	-4.90	280.41	43.31			DN	
	2248	1920		10.34	-4.90	280.43	43.33			DN	
	2348	2020		10.33	-4.90	280.41	43.31			DN	
	2448	2120		10.26	-4.90	280.62	43.52			DN	
	2548	2220		10.32	-4.91	280.45	43.35			DN	
	2648	2320		10.33	-4.91	280.42	43.32			DN	
	2748	2420		10.26	-4.92	280.59	43.49			DN	
	2848	2520		10.23	-4.91	280.52	43.42			DN	

AQUIFER TEST DATA

WELL 46-S-T-1
 PUMPING or OBSERVATION WELL
 PUMPING or RECOVERY DATA
 PAGE 3 OF 5

TYPE OF AQUIFER TEST Constant Discharge @ 235 gpm
 HOW Q MEASURED Metre
 HOW W.L.'s MEASURED Siaco Recorder
 RAD./DIST. OF/FROM PUMPING WELL _____
 MEAS. POINT FOR W.L.'s 310.00
 ELEVATION OF MEAS. POINT _____

DEPTH OF PUMP/AIRPIPE _____
 PUMP ON: date 10/5/80 time 1646
 PUMP OFF: date 10/9/80 time 1649
 DURATION OF AQUIFER TEST _____

LOCATION _____ PERSONNEL DAVID H. WILKINS

PROJECT 72-243-03-01

TIME				WATER LEVEL DATA				DISCHARGE		RECORDED BY	COMMENTS
t = _____ at t' = 0				STATIC WATER LEVEL <u>237.10</u>				READING	Q		
DAY	CLOCK TIME	t	t'	READING	CONVERSIONS OR CORRECTIONS	WATER LEVEL	s or s'				
L	1548	2286		16.21	-4.92	280.71	43.61	235	235		
	1548	2340		16.17	-4.92	280.80	43.70				
	1618	2400		16.30	-4.91	280.50	43.40	↑	↑		Temp = 18°
	1648	2460		16.33	-4.91	280.43	43.33				
	1718	2520		16.41	-4.91	280.24	43.14				
	1848	2580		16.50	-4.91	280.02	42.92				
	1908	2640		16.49	-4.91	280.05	42.95				
	1948	2700		16.43	-4.93	280.17	43.07				
	1348	2760		16.52	-4.94	280.19	43.09				
	1448	2820		16.48	-4.94	280.05	42.95				
	1518	2880		16.43	-4.95	280.15	43.05				
	1648	2940		16.46	-4.95	280.07	42.97				
	1748	3000		16.36	-4.90	280.31	43.21				
	1848	3060		16.34	-4.95	280.36	43.26				
	1948	3120		16.25	-4.95	280.57	43.47				
	2048	3180		16.13	-4.96	280.85	43.75	↓	↓		
	2148	3240		16.16	-4.95	280.92	43.82	↓	↓		
	2248	3300		16.00	-4.97	281.13	44.03				
	2348	3360		16.02	-4.96	280.87	43.77				
	0048	3420		9.97	-4.97	281.20	44.10				
	0148	3480		9.96	-4.97	281.22	44.12				
	0248	3540		9.89	-4.98	281.43	44.33				
	0348	3600		9.85	-4.99	281.46	44.36				
	0448	3660		9.89	-4.99	281.36	44.26				
	0548	3720		9.82	-4.99	281.53	44.43				
	0648	3780		9.67	-4.99	281.88	44.78				
	0748	3840		9.82	-4.99	281.50	44.40				
	0848	3900		9.83	-4.99	281.50	44.40				
	0948	3960		9.92	-4.99	281.29	44.19				
	1048	4020		9.95	-4.99	281.22	44.12				
	1148	4080		10.04	-4.99	280.90	43.80				
	1248	4140		9.79	-5.00	281.13	44.03				
	1348	4200		10.03	-5.01	281.02	43.92				
	1448	4260		10.04	-5.02	280.99	43.89				
	1548	4320		10.01	-5.03	281.04	43.94				
	1648	4380		10.11	-5.03	280.80	43.70				
	1748	4440		9.94	-5.04	280.97	43.87				
	1848	4500		9.91	-5.03	281.27	44.17				
	1948	4560		9.73	-5.03	281.72	44.62				
	2048	4620		9.72	-5.03	281.58	44.48	↓	↓		
	2148	4680		9.59	-5.03	282.03	44.92	235	235		

AQUIFER TEST DATA

WELL HC-2-T-1
 PUMPING or OBSERVATION WELL
 PUMPING or RECOVERY DATA
 PAGE 4 OF 5

TYPE OF AQUIFER TEST Constant Discharge @ 235 gpm
 HOW Q MEASURED Spaulding Meter
 HOW W.L.'s MEASURED Sinec Recorder
 RAD./DIST. OF/FROM PUMPING WELL _____
 MEAS. POINT FOR W.L.'s 310.00
 ELEVATION OF MEAS. POINT _____

DEPTH OF PUMP/AIRPIPE _____
 PUMP ON: date 10/5/80 time 1646
 PUMP OFF: date 10/9/80 time 1649
 DURATION OF AQUIFER TEST 97 HRS.

LOCATION LAKE CHARLES
 PERSONNEL BRUCE A. HILL
 PROJECT 20-310-10-1

TIME				WATER LEVEL DATA				DISCHARGE		RECORDED BY	COMMENTS
t = _____		at t' = 0		STATIC WATER LEVEL <u>237.10</u>				READING	Q		
DAY	CLOCK TIME	t	t'	READING	CONVERSIONS CORRECTIONS	WATER LEVEL	s or s'				
	2248	4740		9.56	-5.03	282.09	44.99	235	235	DN	
	2250	4800		9.67	-5.03	281.95	44.85	↑	↑	DN	
	2255	4860		9.72	-5.04	281.71	44.61	↑	↑	DN	
	0148	4920		9.67	-5.04	281.83	44.73	↑	↑	DN	
	0248	4980		9.43	-5.04	282.40	44.30	↑	↑	DN	
	0348	5040		9.52	-5.05	282.16	44.06	↑	↑	DN	
	0448	5100		9.47	-5.05	282.28	44.18	↑	↑	DN	
	0548	5160		9.51	-5.05	282.18	44.08	↑	↑	DN	
	0648	5220		9.48	-5.05	282.26	44.16	↑	↑	DN	
	0748	5280		9.62	-5.05	281.98	43.83	↑	↑	DN	
	0848	5340		9.67	-5.05	281.81	43.71	↑	↑	DN	
	0948	5400		9.82	-5.06	281.46	43.36	↑	↑	DN	
	1048	5460		9.81	-5.05	281.48	43.38	↑	↑	DN	
	1148	5520		9.80	-5.06	281.51	43.41	↑	↑	DN	
	1248	5580		9.74	-5.06	281.65	43.55	↑	↑	DN	
	1348	5640		9.77	-5.06	281.58	43.48	↑	↑	DN	
	1448	5700		9.74	-5.07	281.62	43.52	↑	↑	DN	
	1548	5760		9.83	-5.07	281.41	43.31	↓	↓	DN	
	1648	5820		9.76	-5.07	281.58	43.48	235	235	DN	
	1648	5820	0	20.54	-5.07	232.88	-4.22			DN	Pump off
	1650	5820	1	28.32	-5.07	238.08	0.98			DN	
	1651	5820	2	28.89	-5.08	239.07	1.97			DN	
	1652	5820	3	27.88	-5.08	239.10	2.00			DN	
	1652	5820	4	27.91	-5.07	239.04	1.94			DN	
	1654	5820	5	27.93	-5.07	239.00	1.90			DN	
	1655	5820	6	27.95	-5.08	238.94	1.84			DN	
	1656	5820	7	27.97	-5.07	238.90	1.80			DN	
	1657	5820	8	27.98	-5.08	238.87	1.78			DN	
	1658	5820	9	27.99	-5.07	238.86	1.76			DN	
	1659	5820	10	28.00	-5.08	238.82	1.72			DN	
	1700	5820	11	28.01	-5.07	238.81	1.71			DN	
	1701	5820	12	28.02	-5.08	238.77	1.67			DN	
	1702	5820	13	28.02	-5.07	238.79	1.69			DN	
	1703	5820	14	28.03	-5.07	238.76	1.66			DN	
	1704	5820	15	28.03	-5.07	238.76	1.66			DN	
	1705	5820	16	28.04	-5.07	238.74	1.64			DN	
	1706	5820	17	28.04	-5.08	238.73	1.63			DN	
	1707	5820	18	28.04	-5.08	238.73	1.63			DN	
	1708	5820	19	28.05	-5.07	238.71	1.61			DN	
	1709	5820	20	28.05	-5.08	238.70	1.60			DN	

AQUIFER TEST DATA

WELL HC-S-T-1
 PUMPING or OBSERVATION WELL
 PUMPING or RECOVERY DATA
 PAGE 5 OF 5

TYPE OF AQUIFER TEST Constant Discharge @ 235 gpm
 HOW Q MEASURED Spinning Meter
 HOW W.L.'s MEASURED Sioux Recorder
 RAD./DIST. OF/FROM PUMPING WELL 3 10" D
 MEAS. POINT FOR W.L.'s 3:0"
 ELEVATION OF MEAS. POINT _____

DEPTH OF PUMP/AIRPIPE _____
 PUMP ON: date 10/5/80 time 1646
 PUMP OFF: date 10/5/80 time 1649
 DURATION OF AQUIFER TEST 97 hrs + 19 hrs recovery

LOCATION 1101 Carbon
 PERSONNEL David & Mike

TIME				WATER LEVEL DATA					DISCHARGE		RECORDED BY	COMMENTS
t = _____		at t' = 0		STATIC WATER LEVEL <u>237.10</u>					READING	Q		
D	CLOCK TIME	t	t'	READING	CONVERSIONS OF CORRECTIONS	WATER LEVEL	s or s'					
	1710	5842	21	✓	28.06	-5.07	238.69	1.59			DW	
	1711	5843	22		28.06	-5.07	238.69	1.59			DW	
	1712	5844	23		28.06	-5.07	238.69	1.59			DW	
	1713	5845	24	✓	28.07	-5.08	238.66	1.56			DW	
	1714	5846	25		28.07	-5.07	238.67	1.57			DW	
	1715	5847	26		28.07	-5.08	238.66	1.56			DW	
	1716	5848	27	✓	28.08	-5.08	238.63	1.53			DW	
	1717	5849	28		28.08	-5.08	238.63	1.53			DW	
	1718	5850	29		28.09	-5.08	238.61	1.51			DW	
	1719	5851	30	✓	28.09	-5.08	238.61	1.51			DW	
	1724	5856	35	✓	28.11	-5.08	238.56	1.46			DW	
	1729	5861	40		28.12	-5.08	238.54	1.44			DW	
	1734	5866	45	✓	28.13	-5.08	238.52	1.42			DW	
	1739	5871	50		28.14	-5.09	238.48	1.38			DW	
	1744	5876	55	✓	28.15	-5.09	238.46	1.36			DW	
	1749	5881	60	✓	28.16	-5.09	238.43	1.33			DW	
	1819	5911	90	✓	28.18	-5.09	238.39	1.29			DW	
	1849	5941	120	✓	28.20	-5.10	238.33	1.23			DW	
	1919	5971	150	✓	28.22	-5.10	238.28	1.18			DW	
	1949	6001	180		28.24	-5.10	238.23	1.13			DW	
	2019	6031	210	✓	28.24	-5.10	238.23	1.13			DW	
	2049	6061	240		28.25	-5.10	238.21	1.11			DW	
	2149	6121	300	✓	28.27	-5.09	238.18	1.08			DW	
	2219	6181	360		28.29	-5.09	238.13	1.03			DW	
	2319	6241	420	✓	28.30	-5.09	238.11	1.01			DW	
	0049	6306	480		28.32	-5.09	238.04	.94			DW	
	0119	6361	540	✓	28.33	-5.10	238.07	.92			DW	
	0219	6421	600		28.34	-5.10	238.00	.90			DW	
	0319	6481	660	✓	28.35	-5.09	237.99	.89			DW	
	0419	6541	720		28.36	-5.09	237.97	.87			DW	
	0519	6601	780	✓	28.37	-5.09	237.94	.84			DW	
	0617	6661	840		28.38	-5.09	237.92	.82			DW	
	0717	6721	900		28.39	-5.09	237.89	.79			DW	
	0817	6781	960	✓	28.40	-5.09	237.87	.77			DW	
	0917	6841	1020		28.41	-5.08	237.86	.76			DW	
	1017	6901	1080		28.42	-5.09	237.82	.72			DW	
	1117	6961	1140		28.44	-5.08	237.79	.69			DW	

PROJECT 1101 Carbon

LOG OF BOREHOLE

BOREHOLE HC-S-T-1
PAGE. 7 OF 7

LOC. or COORDS. <u>T7N, R51E, Sec 10aa</u> <u>Hot Creek Valley, Nevada</u>	DRILLER <u>Scott Stephenson</u> <u>Drilling</u>	START DATE <u>3/26/80</u>	FINISH DATE <u>3/29/80</u>
GROUND ELEV. <u>5600 ft</u>	<u>Andrew McPherson, Russel</u>	TIME <u>0938</u>	<u>2100</u>
TOTAL DEPTH <u>540 ft</u>	RIG <u>1 P-1200</u>	GEOPHYS. LOG <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	HOW LEFT <u>125 ft</u>
BOREHOLE DIAM. <u>9.9"</u>	BIT(S) <u>None</u>	FLUID <u>Barite</u>	

LOCATION Hot Creek Valley, Nevada
LOGGED BY R. D. Johnson & D. J. H. Jones

PROJECT Hot Creek Valley, Nevada
11. V.P. 100 F.V. 80

DEPTH	PENE RATE	CIRC RET	AIRLIFT LOSS Q (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
0 ft	7 min			Sand + gravel		Sand + gravel; white (7.5 YR, N8/0), brown (7.5 YR, 5/2), dk grey (7.5 YR, N4/0), black (7.5 YR, N3/0); welded rhyolite tuff (70% quartz (30%); poorly sorted); medium to coarse grained sand to fine gravel; subangular to subrounded; no structure; non-plastic; non-sticky; weakly consolidated; no acid reaction; uniform [(0-1020)]
10 ft	5 min			Sand + gravel		- same as above
20 ft	5 min			Sand + gravel		- same as above
30 ft	5 min			Sand + gravel		- same as above
40 ft	5 min			Sand + gravel		- same as above
50 ft	5 min			Sand + gravel		- same as above
60 ft	5 min			Sand + gravel		- same as above
70 ft	5 min			Sand + gravel		- same as above
80 ft	5 min			Sand + gravel		- same as above
90 ft	5 min			Sand + gravel		- same as above
100 ft	5 min			Sand + gravel		- same as above
110 ft	5 min			Sand + gravel		- same as above
120 ft	5 min			Sand + gravel		- same as above
130 ft	5 min			Sand + gravel		- same as above
140 ft	5 min			Sand + gravel		- same as above
150 ft	5 min			Sand + gravel		- same as above
160 ft	5 min			Sand + gravel		- same as above
170 ft	5 min			Sand + gravel		- same as above
180 ft	5 min			Sand + gravel		- same as above
190 ft	5 min			Sand + gravel		- same as above
200 ft	5 min			Sand + gravel		- same as above
210 ft	5 min			Sand + gravel		- same as above
220 ft	5 min			Sand + gravel		- same as above
230 ft	5 min			Sand + gravel		- same as above
240 ft	5 min			Sand + gravel		- same as above
250 ft	5 min			Sand + gravel		- same as above
260 ft	5 min			Sand + gravel		- same as above
270 ft	5 min			Sand + gravel		- same as above
280 ft	5 min			Sand + gravel		- same as above
290 ft	5 min			Sand + gravel		- same as above
300 ft	5 min			Sand + gravel		- same as above
310 ft	5 min			Sand + gravel		- same as above
320 ft	5 min			Sand + gravel		- same as above
330 ft	5 min			Sand + gravel		- same as above
340 ft	5 min			Sand + gravel		- same as above
350 ft	5 min			Sand + gravel		- same as above
360 ft	5 min			Sand + gravel		- same as above
370 ft	5 min			Sand + gravel		- same as above
380 ft	5 min			Sand + gravel		- same as above
390 ft	5 min			Sand + gravel		- same as above
400 ft	5 min			Sand + gravel		- same as above
410 ft	5 min			Sand + gravel		- same as above
420 ft	5 min			Sand + gravel		- same as above
430 ft	5 min			Sand + gravel		- same as above
440 ft	5 min			Sand + gravel		- same as above
450 ft	5 min			Sand + gravel		- same as above
460 ft	5 min			Sand + gravel		- same as above
470 ft	5 min			Sand + gravel		- same as above
480 ft	5 min			Sand + gravel		- same as above
490 ft	5 min			Sand + gravel		- same as above
500 ft	5 min			Sand + gravel		- same as above
510 ft	5 min			Sand + gravel		- same as above
520 ft	5 min			Sand + gravel		- same as above
530 ft	5 min			Sand + gravel		- same as above
540 ft	5 min			Sand + gravel		- same as above

LOG OF BOREHOLE

BOREHOLE 40-9-T-1

PAGE 2 OF 7

LOC. or COORDS. T7N, R51E, Sec 10a
Hart Creek Valley, Nevada
 GROUND ELEV. 5160 ft
 TOTAL DEPTH 540 ft
 BOREHOLE DIAM. 4.9"

DRILLER Scott Stephens Drilling
 RIG CP-1700
 BIT(S) Tri-cone
 FLUID Bentonite

START DATE 8/6/80 FINISH DATE 8/29/80
 TIME 0938 2100
 GEOPHYS. LOG YES NO
 HOW LEFT 11.55 meters

LOCATION Hart Creek Valley Nevada
 LOGGED BY R. D. Hartman

PROJECT Hydrogeology of P. 2024
W. D. Hartman

DEPTH	PENE RATE	CIRC RET LOSS	AIRLIFT O (gpm)	MATERIAL	SYM BOL	DESCRIPTION and COMMENTS
80ft	6 min			Sand		Sand; white (7.5 VR, N 8/0), strong brown (7.5 VR, 5/8), brown (7.5 VR, 5/2), dk grey (7.5 VR, N 4/2), black (7.5 VR, N 6/0), welded rhyolite tuff (70%), Quartz (30%); moderate sorted; fine to coarse grained sand; subangular to subrounded; no structure non plastic; non sticky; moderate to well consolidated; weak acid reaction; uniform [(80-90ft)]
90ft	10 min			sand		
100ft	6 min			sand		- Same as above
110ft	9 min			sand		
120ft	10 min			Sand		- Same as above
130ft	10 min			Sand		- Same as above
140ft	13 min			Sand		- Same as above
150ft	9 min			Sand		- Same as above

LOG OF BOREHOLE

BOREHOLE 11-9-1
PAGE 2 OF 7

LOC. or COORDS. <u>T7N, R5E, S40a</u> <u>H+OZEL Valley, Oregon</u>	DRILLER <u>Scott Stephens Drilling</u>	START DATE <u>7/26/80</u>	FINISH DATE <u>7/29/80</u>
GROUND ELEV. <u>5000 ft</u>	RIG <u>OP-1800</u>	TIME <u>0938</u>	<u>2100</u>
TOTAL DEPTH <u>420 ft</u>	BIT(S) <u>T40-18</u>	GEOPHYS. LOG <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
BOREHOLE DIAM. <u>9.9"</u>	FLUID <u>Bentonite mud</u>	HOW LEFT <u>Unrestored</u>	

LOCATION H+OZEL Valley, Oregon
LOGGED BY Scott Stephens

PROJECT Myrtle Falls

DEPTH	PENE. RATE	CIRC. RET. LOSS	AIRLIFT Q (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
160ft	7min			Sand		Sand; white (7.5VR, N8/10), strong brown (7.5VR, 5/5), brown (7.5VR, 5/2), dark grey (7.5VR, N4/10), black (7.5VR, N2/10), welded rhyolite tuff (70%), quartz (30%), moderately sorted; fine to coarse grained sand; subangular to subrounded; no structure; non-elastic; non-sticky; moderate to well consolidated; weak acid reaction; uniform [(160-180ft)]
170ft	9min			Sand		
180ft	7min			Sand		Sand; white (7.5VR, N8/10), strong brown (7.5VR, 5/5), dark grey (7.5VR, N4/10), black (7.5VR, N2/10); SiO ₂ minerals (various types of SiO ₂ - jasper, smoky, clear + white quartz, chalcedony); moderately sorted; medium to coarse grained; subangular to subrounded; no structure, non-elastic; non-sticky; weak to moderately consolidated; weak acid reaction; uniform [(180-190ft)]
190ft	8min			Sand		
200ft	9min			Sand		- same as above
210ft				Sand		- same as above
220ft	10min			Sand		
230ft				Sand		- same as above
240ft	6min			Sand		
250ft				Sand		- same as above
260ft	5min			Sand		

LOG OF BOREHOLE

BOREHOLE HC-S-T-1
PAGE 4 OF 7

LOC. or COORDS. <u>T-7N R-5E S-20E</u> <u>Hot Creek Valley, Nevada</u>	DRILLER <u>Matt Stephens Drilling</u>	START DATE <u>7/26/86</u>	FINISH DATE <u>7/29/86</u>
GROUND ELEV. <u>5600 ft</u>	RIG <u>CP-1000</u>	TIME <u>1937</u>	2100
TOTAL DEPTH <u>540 ft</u>	BIT(S) <u>Tri cone</u>	GEOPHYS. LOG <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
BOREHOLE DIAM. <u>4.9" Ø</u>	FLUID <u>Drill bits fluid</u>	HOW LEFT <u>Unrestored</u>	

LOCATION Hot Creek Valley, Nevada
 LOGGED BY R. Rabbit, m. h. [unclear]
 PROJECT Sh. (low) counter [unclear]
Hot Creek Valley, Nevada

DEPTH	PENE RATE	CIRC RET LOSS	AIRLIFT Q (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
540 ft	10 min			clayey sand	[unclear]	clayey sand; white (7.5 VR, N 2/0), dark grey (7.5 VR, N 4/0), pinkish grey (7.5 VR, N 2/0); black (7.5 VR, N 2/0); Silty minerals & clay minerals; well sorted, very fine grained to mid grained sand; sub-rounded to rounded; no structure; non-plastic; non-sticky; well consolidated; strong reaction to HCl; uniform
250 ft	14 min			clayey sand	[unclear]	
220 ft	11 min			sand	[unclear]	clayey sand; white (7.5 VR, N 2/0), dark grey (7.5 VR, N 4/0), pinkish grey (7.5 VR, N 2/0); black (7.5 VR, N 2/0); Silty minerals (6.5%) (Quartz, Chalcedony, rust staining), welded Arkalite tail (35%); poorly sorted; subangular to subrounded; no structure; non-plastic; non-sticky; well consolidated; slight HCl reaction; uniform
270 ft	14 min			sand	[unclear]	
280 ft	6 min			sand	[unclear]	Sand; E (2600-2700) white (7.5 VR, N 2/0); strong brown (7.5 VR, N 5/0), brown (7.5 VR, N 2/0), dark grey (7.5 VR, N 4/0), black (7.5 VR, N 2/0); includes Arkalite tail (70%), quartz (30%); moderately sorted; fine to medium grained; subangular to subrounded; non-plastic; non-sticky; moderately consolidated; no HCl reaction; uniform
290 ft	10 min			sand	[unclear]	- same as above
300 ft	9 min			sand	[unclear]	- same as above
310 ft	9 min			sand	[unclear]	- same as above
320 ft	9 min			sand	[unclear]	- same as above

LOG OF BOREHOLE

BOREHOLE H0-S-F-1

PAGE 5 OF 7

LOC. or COORDS. <u>T7N, R51E, Sec 20a Hot Creek Valley, Nevada</u>	DRILLER <u>Scott Shepherson, Del Rio</u>	START DATE <u>2/26/80</u>	FINISH DATE <u>2/29/80</u>
GROUND ELEV. <u>5600 ft</u>	RIG <u>CP-1700</u>	TIME <u>29 38</u>	<u>2:00</u>
TOTAL DEPTH <u>540 ft</u>	BIT(S) <u>Tri cone</u>	GEOPHYS. LOG <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	HOW LEFT <u>100% stored</u>
BOREHOLE DIAM. <u>2.91"</u>	FLUID <u>Bentonite Mud</u>		

LOCATION Hot Creek Valley, Nevada
 LOGGED BY R. D. ...

PROJECT ...

DEPTH	PENE. RATE	CIRC. RET. LOSS	AIRLIFT Q (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
320 ft	8 min			Sand		Sand; white (7.5 YR, 4/10), brown (7.5 YR, 5/3), brown (7.5 YR, 5/3), dark grey (7.5 YR, 4/10). Weak (5.5 YR, 4/10), welded silicified tuff (7.5 YR, 4/10), quartz (35%), moderate sand; fine medium sand; subangular & subrounded, non-plastic, non-bloomy; moderately well sorted; with section, 1/2 inch [320-330 ft]
330 ft	11 min			Sand		- Same as above
340 ft	10 min			sand		- Same as above
350 ft	14 min			Sand		- Same as above
360 ft	12 min			Sand		- Same as above
370 ft	13 min			Sand		- Same as above
380 ft	10 min			Sand		- Same as above
390 ft	10 min			Sand		- Same as above

LOG OF BOREHOLE

BOREHOLE HC-9-T-1
PAGE 6 OF 7

LOC. or COORDS. T7N R51E, Sec 12a
Holt Creek Valley, Iowa
GROUND ELEV. 5600.0
TOTAL DEPTH 542.0
BOREHOLE DIAM. 0.9"

DRILLER Scott Stephenson Drilling
RIG CP-200
BIT(S) TRICAM
FLUID Bentonite Mud

START DATE 8/26/80 FINISH DATE 3/29/81
TIME 0937 2100
GEOPHYS. LOG YES NO
HOW LEFT Unrestored

LOCATION Holt Creek Valley, Iowa
LOGGED BY R. J. Stephenson

PROJECT Statewide Groundwater Monitoring
DATE 8/26/80

DEPTH	PENE. RATE	CIRC. RET. LOSS	AIRLIFT Q (gpm)	MATERIAL	SYMBOL	DESCRIPTION and COMMENTS
400.0	9 min			Sand		Sand; white (7.5YR, N7/2), strong brown (7.5YR, 5/2), brown (7.5YR, 5/2), dark grey (7.5YR, N4/2), black (7.5YR, N4) welded, slightly silty (7.0%), quartz (30%) moderately sorted, fine to medium grained, subangular, no structure; non-plastic; no structure; moderately consolidated; no HCl reaction; [400-410.20]
410.0	13 min			Sand		- Same as above
420.0	7 min			Sand		- Same as above
430.0	7 min			Sand		- Same as above
440.0	5 min			Sand		- Same as above
450.0	7 min			clayey sand		Sand, brown, white (7.5YR, 5/2), brown (7.5YR, 5/2), dark grey (7.5YR, 5/2), welded, slightly silty (7.0%), quartz (35%) silt to very fine grain (35%), medium to coarse grained (35%) subangular, no structure; plastic, slightly, 2 to 4 mm, moderately consolidated; [450-460.20]
470.0	8 min			clayey sand		- Same as above
480.0	10 min			Sand		- Same as above

LOG OF BOREHOLE

BOREHOLE HC-S-T-1

PAGE 7 OF 7

LOC. or COORDS. T 7 N R 51 E, Sec 10a
Landless, N. Carolina
 GROUND ELEV. 560 ft
 TOTAL DEPTH 540 ft
 BOREHOLE DIAM. 4.9"

DRILLER Scott Steinhilber Drilling
 RIG CP-1000
 BIT(S) T-100
 FLUID Water

START FINISH
 DATE 7/24/76 8/29/76
 TIME 0938 0100
 GEOPHYS. LOG YES NO
 HOW LEFT Water stop

LOCATION Landless, N. Carolina
 LOGGED BY R. P. Steinhilber

PROJECT Sh. Co. (1000) - 1000
1000 - 1000

DEPTH	PENE RATE	CIRC RET LOSS	AIRLIFT Q (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
-480 ft	17 min			clayey sand		clayey sand; white (7.5 LR, 18%), brown (7.5 LR, 5%) pinkish grey (7.5 LR, 10%); welded muslite buff (70%), quartz (20%); poorly sorted; silt to very fine grained (35%), medium to coarse grained (65%); subangular to structures; slightly plastic; slight sticky; moderately consolidated; low acid reactivity, unglaucon. [(480-490 ft)]
-490 ft	10 min			clayey sand		- Same as above
-500 ft	10 min			clayey sand		- Same as above
-510 ft	13 min			Sandy clay		Sand, clay, pinkish grey (7.5 LR, 10%); clay minerals (70%), quartz (20%), siltite buff (10%); moderately sorted; clay (70%) is very fine grained; well sorted; no structure plastic; sticky; moderately consolidated; slight acid reactivity, unglaucon. subangular to subrounded; no structures [(510-520 ft)]
-520 ft	10 min			Sand		- Same as above
-530 ft	10 min			Sand		- Same as above
-540 ft	10 min			Sand		- Same as above