

CONSTRUCTION DETAILS OF TEST PRODUCTION AND MONITORING WELLS
PHASE III TEST

Section 29

<u>Well Number</u>	<u>Total Depth(feet)</u>	<u>Casing Diameter(inches)</u>	<u>Casing Depth (feet)</u>	<u>Casing Type</u>	<u>Finish</u>
H-M-328	133	10	75	PVC	Open
1 H-M-329	95	4	75	PVC	Open
2 H-M-330	126	6	--	Steel	Open
H-M-331	95	4	75	PVC	Open
H-M-332	16.5	4	12	PVC	PVC Slo Screen

AQUIFER TEST RESULTS AND INTERPRETATIONS
SUMMARY OF COMPUTED AQUIFER HYDRAULIC COEFFICIENTS
PHASE III TEST

<u>Well No.</u>	<u>Method</u>	<u>Transmissivity (gpd/ft)</u>	<u>Storage Coefficient</u>
H-M-329	Straight Line	510,000	.00024
	Curve Matching	490,000	.00026
H-M-330	Straight Line	510,000	.00027
	Curve Matching	520,000	.00024
H-M-331	Straight Line	500,000	.00025
	Curve Matching	430,000	.00033
	Distance Drawdown	510,000	.00032

AQUIFER TEST RESULTS AND INTERPRETATIONS
SUMMARY OF COMPUTED AQUIFER HYDRAULIC COEFFICIENTS
PHASE III TEST

<u>Well No.</u>	<u>Method</u>	<u>Transmissivity (gpd/ft)</u>	<u>Storage Coefficient</u>	<u>Leakage (gpd)</u>
H-M-329	Straight Line	510,000	.00024	
	Curve Matching	490,000	.00026	.0
H-M-330	Straight Line	510,000	.00027	
	Curve Matching	520,000	.00024	.
H-M-331	Straight Line	500,000	.00025	
	Curve Matching	430,000	.00033	.
	Distance Drawdown	510,000	.00032	

TABLE 2.

COMPUTED AQUIFER HYDRAULIC COEFFICIENTS

PHASE I TEST: SECTION 5

<u>Well No.</u>	<u>Method</u>	<u>Transmissivity (gpd/ft)</u>	<u>Storage Coefficient</u>	<u>Leakance Coefficient (gpd/ft³)</u>
H-M-231	Straight Line	106,000	---	---
	Curve Matching	105,000	3.7×10^{-4}	1.1×10^{-3}
H-M-236	Straight Line	114,000	---	---
	Curve Matching	96,000	3.9×10^{-4}	2.5×10^{-3}
H-M-237	Straight Line	125,000	---	---
	Curve Matching	105,000	5.0×10^{-4}	1.1×10^{-3}
H-M-241	Straight Line	139,000	---	---
	Curve Matching	123,000	6.0×10^{-4}	1.1×10^{-3}
			5.6×10^{-4}	1.3×10^{-3}
H-M-242	Curve Matching	123,000	---	---
--	Distance Drawdown (Straight Line)	100,000	---	---
--	Computer Fit:			
	Equilibrium	105,000	---	1.0×10^{-3}
	Non-Steady State	105,000	5×10^{-4}	1.2×10^{-3}

PHASE II TEST: SECTION 29

<u>Well No.</u>	<u>Method</u>	<u>Transmissivity (gpd/ft)</u>	<u>Storage Coefficient</u>	<u>Leakance Coefficient (gpd/ft³)</u>
		330,000	---	---
			3.4×10^{-4}	1.3×10^{-4}

TABLE 2. COMPUTED AQUIFER HYDRAULIC COEFFICIENTS
PHASE I TEST: SECTION 5

<u>Well No.</u>	<u>Method</u>	<u>Transmissivity (gpd/ft)</u>	<u>Storage Coefficient</u>	<u>Leakance Coefficient (gpd/ft³)</u>
H-M-231	Straight Line	106,000	---	---
	Curve Matching	105,000	3.7 x 10 ⁻⁴	1.1 x 10 ⁻³
H-M-236	Straight Line	114,000	---	---
	Curve Matching	96,000	3.9 x 10 ⁻⁴	2.5 x 10 ⁻³
H-M-237	Straight Line	125,000	---	---
	Curve Matching	105,000	5.0 x 10 ⁻⁴	1.1 x 10 ⁻³
H-M-241	Straight Line	139,000	---	---
	Curve Matching	123,000	6.0 x 10 ⁻⁴	1.1 x 10 ⁻³
H-M-242	Curve Matching	123,000	5.6 x 10 ⁻⁴	1.3 x 10 ⁻³
	Distance Drawdown (Straight Line)	100,000	---	---
--	Computer Fit: Equilibrium	105,000	---	1.0 x 10 ⁻³
--	Non-Steady State	105,000	5 x 10 ⁻⁴	1.2 x 10 ⁻³

PHASE II TEST: SECTION 29

<u>Well No.</u>	<u>Method</u>	<u>Transmissivity (gpd/ft)</u>	<u>Storage Coefficient</u>	<u>Leakance Coefficient (gpd/ft³)</u>
H-M-302	Straight Line	330,000	---	---
	Curve Matching	320,000	3.4 x 10 ⁻⁴	1.3 x 10 ⁻⁴

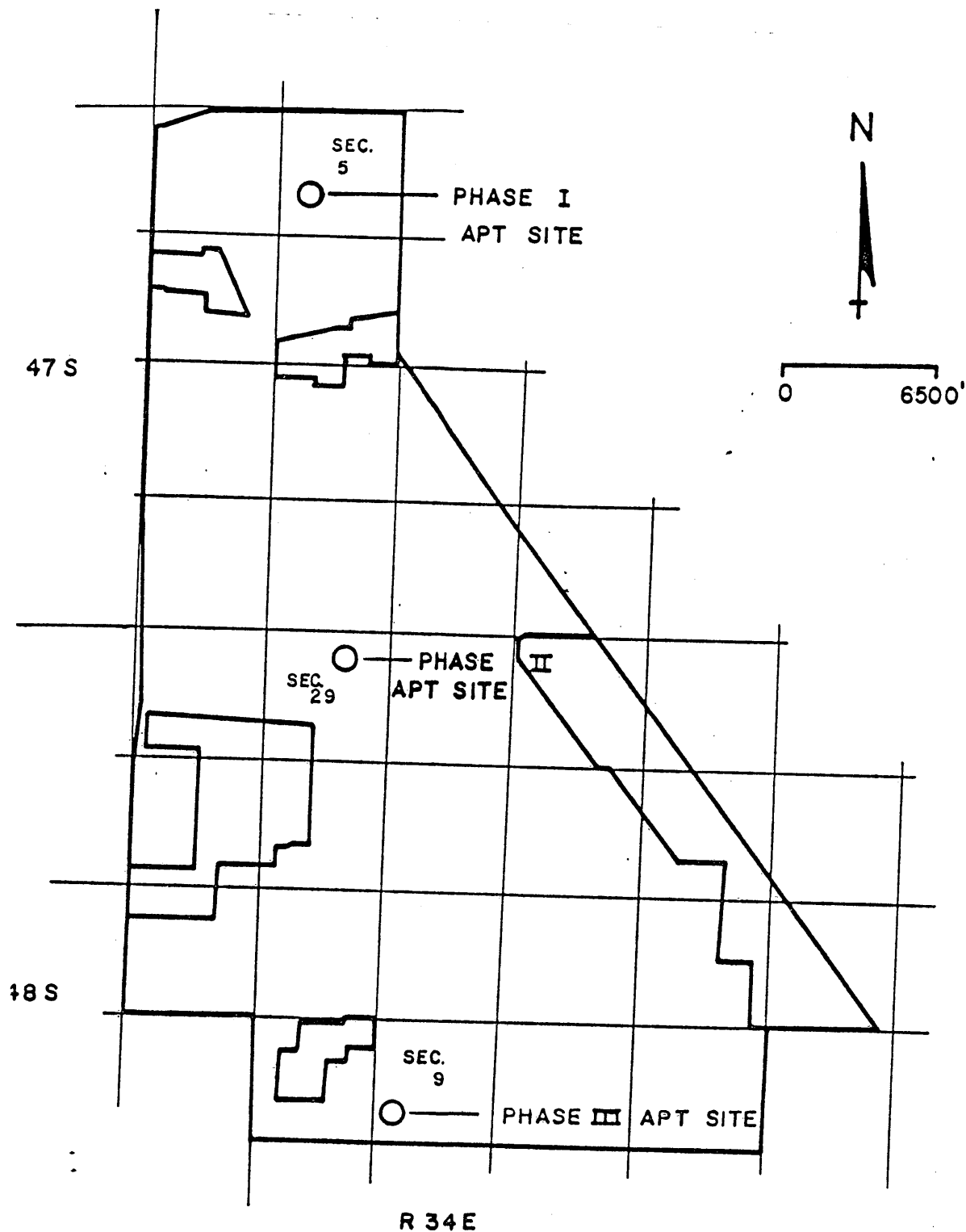
CONSTRUCTION DETAILS OF TEST PRODUCTION AND MONITORING WELLS
PHASE III TEST

<u>Well Number</u>	<u>Total Depth(feet)</u>	<u>Casing Diameter(inches)</u>	<u>Casing Depth (feet)</u>	<u>Casing Type</u>	<u>Fini</u>
1-2 H-M-328	133	10	75	PVC	Ope
/ H-M-329	95	4	75	PVC	Ope
2 H-M-330	126	6	--	Steel	Ope
3 H-M-331	95	4	75	PVC	Ope
H-M-332	16.5	4	12	PVC	PVC Sc

200

CONSTRUCTION DETAILS OF MONITOR AND TEST PRODUCTION WELLS

<u>Well Number</u>	<u>Total Depth (feet)</u>	<u>Drilled Depth (feet)</u>	<u>Casing Diameter (inches)</u>	<u>Casing Depth (feet)</u>	<u>Casing Type</u>	<u>Finish</u>
H-M-231	129	200	4	67	PVC	Open Hole
H-M-232	177	180	4	49	PVC	Open Hole
H-M-233	177	180	4	49	PVC	Open Hole
H-M-234	188	190	4	42	PVC	Open Hole
H-M-235	125	125	12	65	PVC	Open Hole
H-M-236	130	131	4	65	PVC	Open Hole
H-M-237	126	193	4	65	PVC	Open Hole
H-M-241	112	--	6	--	Steel	Open Hole
H-M-242	--	--	6	--	Steel	Open Hole
<i>PW</i> H-M-301	124	180	10	76	PVC	Open Hole
1 H-M-302	140	140	4	77	PVC	Open Hole
2 H-M-303	140	140	4	77	PVC	Open Hole
H-M-304	15	15	4	5	PVC	10' PVC
						Slot Screen
H-M-305	10	10	4	5	PVC	5' PVC
						Slot Screen
H-M-306	28	28	4	23	PVC	5' PVC
						Slot Screen
3 H-M-309	120	120	8	77	PVC	Open Hole



MISSIMER & ASSOC., INC.

A-0410569-1

1987

LOCATION OF USSC, SOUTHERN DIVISION RANCH AQUIFER TEST SITES, 4-87

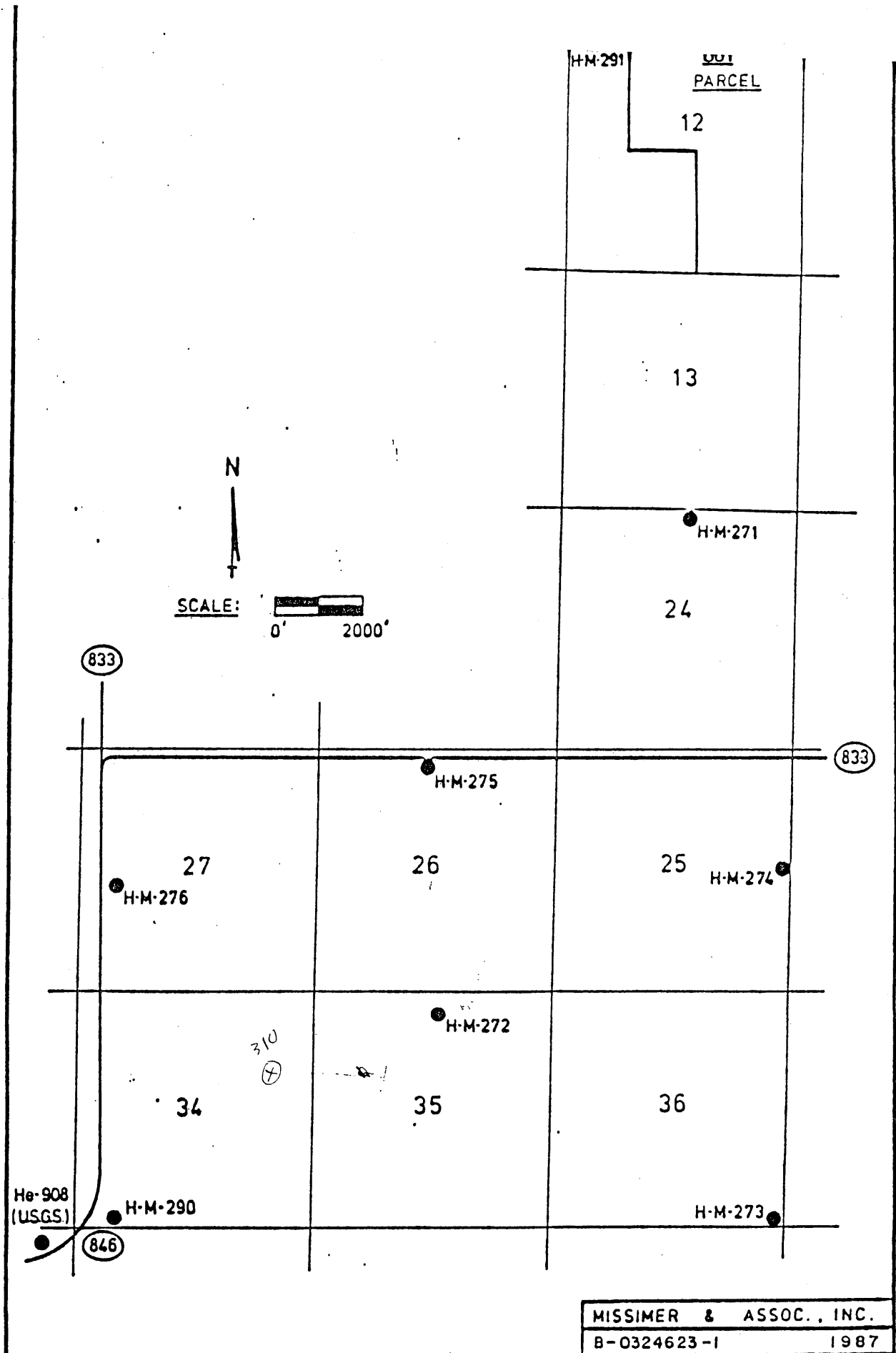


FIGURE 2. ROGERS RANCH SHOWING LOCATION OF GEOLOGIC TEST HOLES.

CONSTRUCTION DETAILS OF MONITOR AND TEST PRODUCTION WELLS

Well Number	Total Depth (feet)	Drilled Depth (feet)	Casing Diameter (inches)	Casing Depth (feet)	Casing Type	Finish
				67	PVC	Open Hole
		200	4	49	PVC	Open Hole
281 H-M-231	129	180	4	49	PVC	Open Hole
H-M-232	177	180	4	42	PVC	Open Hole
H-M-233	177	190	4	65	PVC	Open Hole
H-M-234	188	125	12	65	PVC	Open Hole
pm H-M-235	125	131	4	65	PVC	Open Hole
062 H-M-236	130	193	4	65	PVC	Open Hole
062 H-M-237	126	--	6	--	Steel	Open Hole
062 H-M-241	112	--	6	--	Steel	Open Hole
062 H-M-242	--	--	10	76	PVC	Open Hole
062 H-M-301	124	180	4	77	PVC	Open Hole
H-M-302	140	140	4	77	PVC	Open Hole
H-M-303	140	140	4	5'	PVC	10' PVC
H-M-304	15	15				Slot Screen
			4	5	PVC	5' PVC
H-M-305	10	10				Slot Screen
			4	23	PVC	5' PVC
H-M-306	28	28				Slot Screen
			8	77	PVC	Open Hole
H-M-309	120	120				

	H - M - 231	I
	H - M - 232	
	H - M - 233	
	H - M - 234	
	H - M - 235	I
	H - M - 236	I
	H - M - 237	I
	H - M - 241	I
	H - M - 242	I
	H - M - 301	I 2
	H - M - 302	2
	H - M - 303	2
	H - M - 304	2
	H - M - 305	2
	H - M - 306	2
	H - M - 309	2
	H - M - 328	3
	H - M - 329	3
	H - M - 330	3
	H - M - 331	3
	H - M - 332	3

TABLE 2. SUMMARY OF COMPUTED AQUIFER HYDRAULIC COEFFICIENTS

ID	Well Number	Method	$T = 630,000 \text{ gpd/ft}$ 1.2×10^{-4}		1×10^{-4} 6×10^{-5}		Leakage Coefficient (gpd/ft ³)
			Transmissivity (gpd/ft)	r	Storage Coefficient		
65-110	H-M-311	Straight Line Curve Matching	650,000 610,000	200'	1.4 x 10 ⁻⁴ 0.6 x 10 ⁻⁴		1.4 x 10 ⁻²
65-110	H-M-312	Straight Line Curve Matching	675,000 580,000	600'	1.2 x 10 ⁻⁴ 1.5 x 10 ⁻⁴		4.1 x 10 ⁻²
50-79	H-M-319	Straight Line Curve Matching	710,000 485,000	830'	1.5 x 10 ⁻⁴ 1.6 x 10 ⁻⁴		6.0 x 10 ⁻²
41-66	H-M-320	Straight Line Curve Matching	1,330,000 780,000	2760'	2.0 x 10 ⁻⁴ 2.5 x 10 ⁻⁴		3.2 x 10 ⁻²
Distance Drawdown			440,000		---		---
Computer Match			400,000		---		1.0 x 10 ⁻¹

PW-HM-310
65-105

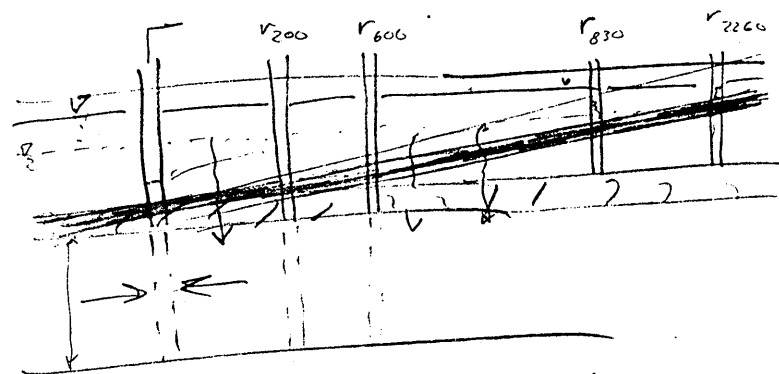


TABLE 1. CONSTRUCTION DETAILS OF MONITOR, TEST PRODUCTION AND EXISTING WELLS

Well Number	Total Depth(ft)	Casing Depth(ft)	Casing Diameter(in)	Casing Type	Finish
H-M-271	145	69	2	PVC	Open Hole
H-M-272	137	60	4	PVC	Open Hole
H-M-273	138	47	4	PVC	Open Hole
H-M-274	138	60	4	PVC	Open Hole
H-M-275	138	70	4	PVC	Open Hole
H-M-276	138	75	4	PVC	Open Hole
H-M-290	125	35	4	PVC	Open Hole
H-M-291	120	55	4	PVC	Open Hole
H-M-310	105	65	10	PVC	Open Hole
H-M-311	110	65	4	PVC	Open Hole
H-M-312	110	65	4	PVC	.020 Screen
H-M-313	15	5	4	PVC	.020 Screen
H-M-314	10	3	4	Steel	Open Hole
H-M-319	79	50	8	Steel	Open Hole
(USSC #6)			8		
H-M-320	66	41			
(USSC #26)					

Lith.