MONITOR WELL DEVELOPMENT

WELL: ST-3-735

Date	Time	Method	Delta Volume (gallons)	Total Volume (gallons)	pH	T°C	Cond	Turbidity (NTU)	Initials	Comments
08/14/92	1040	Pump	0	55	-	-	-	-	DM	Pump set at 525'. Pumped well dry at 9 gpm.
08/14/92	1123	"	135	190	-	-	-	-	DM	Reset pump at 609'. Pumped well dry at 9 gpm after 15 minutes. Let recover.
08/14/92	1335	"	0	190	-	-	-	-	MGC	Discharge begins at 5 gpm.
08/14/92	1342	"	35	225	7.55	25	1150	61	MGC	Turbidity > 100; let bubbles dissipate ≈ 61 NTU.
08/14/92	1349	"	35	260	7.52	25	1150	>100	MGC	Water is milky white.
08/14/92	1408	"	95	355	7.51	25	1150	>100	MGC	pH, T°, and conductivity are stable.
08/14/92	1419	"	55	410	7.57	25	1150	47	MGC	Water is clearing.
08/14/92	1420	"	5	415	-	-	-	-	MGC	Discharge slows to a trickle, pump off.
08/17/92	0933	"	0	415	-	-	-	-	MGC	Discharge begins at 5 gpm.
08/17/92	0934	"	5	420	7.80	25	1070	25	MGC	Water is less soapy but still cloudy.
08/17/92	0940	"	35	455	7.59	25	950	27	MGC	Water contains a lot of bubbles.
08/17/92	0951	"	55	510	7.56	25	980	28	MGC	Water contains a lot of bubbles.
08/17/92	1004	"	65	575	7.65	25	1010	34	MGC	Water contains a lot of bubbles.

Water level: pre-development: 427.0' (G.S.) post-development: 428.39' (T.O.C.)

MONITOR WELL DEVELOPMENT

WELL: ST-3-735

Date	Time	Method	Delta Volume (gallons)	Total Volume (gallons)	pH	T°C	Cond	Turbidity (NTU)	Initials	Comments
08/17/92	1018	Pump	70	645	7.70	25	1000	25	MGC	
08/17/92	1029	"	55	700	7.61	25	900	65	MGC	
08/17/92	1030	"	5	705	-	-	-	-	MGC	Discharge slows. Turn pump off.
08/17/92	1313	"	0	705	-	-	-	-	MGC	Discharge begins 8.3 gpm.
08/17/92	1316	"	25	730	7.68	25	900	33	MGC	Water is cloudy with soap bubbles.
08/17/92	1320	"	33	763	7.55	25	910	29	MGC	Water is cloudy with soap bubbles.
08/17/92	1325	"	41.5	804.5	7.45	25	950	10	MGC	Let soap bubbles dissipate, then check NTU.
08/17/92	1330	"	41.5	846	7.30	25	1000	19	MGC	Discharge slows, pump off.
08/18/92	0726	"	0	846	-	-	-	-	JK	Pump on.
08/18/92	0729	"	0	846	7.27	24	750	12	JK	Discharge begins. Q = 9.0 gpm.
08/18/92	0745	"	144	990	7.18	24	850	9	JK	Water is clear, slightly soapy. Discharge slows. Pump off.
08/18/92	1420	"	0	990	-	-	-	-	JK	Discharge begins, Q = 8 gpm.
08/18/92	1423	"	24	1014	7.54	29	860	9	JK	Slow flow down to 7.5 gpm.
08/18/92	1427	"	30	1044	7.58	29	800	8	JK	Q = 7.5 gpm.
08/18/92	1433	"	45	1089	7.46	28	830	9	JK	
08/18/92	1437	"	30	1119	7.36	28	860	8	JK	Minimal soap in water.
08/18/92	1438	"	0	1119	-	-	-	-	JK	Discharge slows. Pump off.
08/19/92	1245	"	0	1119	-	-	-	-	DM	Begin discharge at 10 gpm.
08/19/92	1247	"	20	1139	7.60	26.5	830	7.2	DM	Sample still soapy.

Water level: pre-development: 427.0' (G.S.) post-development: 428.39' (T.O.C.)

MONITOR WELL DEVELOPMENT

WELL: ST-3-735

Date	Time	Method	Delta Volume (gallons)	Total Volume (gallons)	pH	T°C	Cond	Turbidity (NTU)	Initials	Comments
08/19/92	1251	Pump	40	1179	7.49	27.5	820	5.8	DM	
08/19/92	1255	"	40	1219	7.51	27.5	850	7.1	DM	
08/19/92	1258	"	30	1249	7.53	27.5	870	6.8	DM	
08/19/92	1302	"	40	1289	-	-	-	-	DM	Discharge ends.
08/20/92	1136	"	0	1289	-	-	-	-	DM	Begin discharge at 10 gpm.
08/20/92	1138	"	20	1309	7.24	25.5	750	4.8	DM	Sample still soapy.
08/20/92	1142	"	40	1349	7.29	26	780	5.5	DM	
08/20/92	1146	"	40	1389	7.29	26.5	820	5.3	DM	
08/20/92	1150	"	40	1429	7.31	26.5	850	5.2	DM	
08/20/92	1153	"	30	1459	7.40	27	920	5.2	DM	
08/20/92	1154	"	10	1469	-	-	-	-	DM	Discharge ends.
08/21/92	0952	"	0	1469	-	-	-	-	DM	Discharge begins at 10 gpm.
08/21/92	0954	"	20	1489	7.41	25	780	4.5	DM	
08/21/92	0956	"	20	1509	-	-	-	-	DM	Discharge ends unexpectedly. Turned pump off. Pump siezed.
08/21/92	1340	-	-	-	-	-	-	-	DM	Pulled pump and turned well over to Lockheed for sampling.

Water level: pre-development: 427.0' (G.S.) post-development: 428.39' (T.O.C.)

MONITOR WELL DEVELOPMENT

WELL: ST-3-735

Date	Time	Method	Delta Volume (gallons)	Total Volume (gallons)	pH	T°C	Cond	Turbidity (NTU)	Initials	Comments
10/07/92	-	Pump	0	35	-	-	-	22	MGC	Water is slightly cloudy.
10/07/92	-	"	105	140	-	-	-	8	MGC	Some bubbles present.
10/07/92	-	"	10	150	-	-	-	-	MGC	Discharge slows, pump off.
10/08/92	0946	"	0	150	-	-	-	-	MGC	Discharge begins at 6.7 gpm.
10/08/92	0951	"	33	183	-	-	-	9	MGC	Some bubbles present.
10/08/92	1000	"	60	243	-	-	-	8	MGC	
10/08/92	1010	"	36	279	-	-	-	9	MGC	Discharge at 3.6 gpm.
10/08/92	1016	"	22	301	-	-	-	-	MGC	Discharge slows; turn pump off.
10/09/92	1222	"	0	301	-	-	-	-	JFK	Pump on. Discharge begins at 1226.
10/09/92	1227	"	6	307	-	-	-	16	JFK	Q = 5 gal./48 sec. = 6.2 gpm.
10/09/92	1235	"	50	357	-	-	-	9	JFK	Bubbles present on vial. Apply silicone oil to vials.
10/09/92	1240	"	31	388	-	-	-	9	JFK	Bubbles on vial still giving false high NTU.
10/09/92	1245	"	31	419	-	-	-	8	JFK	
10/09/92	1250	"	31	450	-	-	-	8	JFK	Some bubbles still. Water is very slightly soapy.

Water level: pre-development 427.0' (G.S.); post-development 428.39' (T.O.C.)

SECOND ROUND OF DEVELOPMENT REQUESTED BY LOCKHEED

MONITOR WELL DEVELOPMENT

WELL: ST-3-735

Date	Time	Method	Delta Volume (gallons)	Total Volume (gallons)	pH	T°C	Cond	Turbidity (NTU)	Initials	Comments
10/09/92	1255	"	31	481	-	-	-	7	JFK	Discharge slows. Pump off.
10/12/92	0802									
10/12/92	0802	"	0	481	-	-	-	-	DM	Discharge begins at 6 gpm.
10/12/92	0805	"	18	499	-	-	-	8.9	DM	Water clear but has air bubbles from soap.
10/12/92	0810	"	30	529	-	-	-	3.5	DM	
10/12/92	0820	Pump	60	589	-	-	-	3.1	DM	Discharge still 6 gpm.
10/12/92	0830	"	60	649	-	-	-	3.0	DM	
10/12/92	0831	"	6	655	-	-	-	-	DM	Discharge slows to 1 gpm, shut pump off.
10/12/92	1549	"	0	655	-	-	-	3.8	JFK	Discharge begins. Q = 6 gpm.
10/12 92	1552	"	12	667	-	-	-	5.0	JFK	
10/12/92	1554	"	12	679	-	-	-	3.4	JFK	
10/12/92	1600	"	36	715	-	-	-	3.0	JFK	
10/12/92	1601	"	6	721	-	-	-	3.6	JFK	Q = 6 gpm.
10/12/92	1605	"	24	745	-	-	-	3.4	JFK	
10/12/92	1610	"	30	775	-	-	-	3.2	JFK	
10/12/92	1614	"	24	799	-	-	-	2.8	JFK	Flow is slowing.
10/12/92	1619	"	15	814	-	-	-	2.6	JFK	Pump off.
10/12/92	1313	"	0	814	-	-	-	-	DM	Discharge begins at 6 gpm.
10/12/92	1318	"	30	844	-	-	-	2.3	DM	
10/12/92	1329	Pump	66	910	-	-	-	2.0	DM	

Water level: pre-development 427.0' (G.S.); post-development 428.39' (T.O.C.)

SECOND ROUND OF DEVELOPMENT REQUESTED BY LOCKHEED

MONITOR WELL DEVELOPMENT

WELL: ST-3-735

Date	Time	Method	Delta Volume (gallons)	Total Volume (gallons)	pH	T°C	Cond	Turbidity (NTU)	Initials	Comments
10/13/92	1339	"	60	970	-	-	-	2.1	DM	
10/13/92	1345	"	36	1006	-	-	-	-	DM	Discharge slows to 1 gpm, shut pump off.
10/15/92	1050	"	0	1006	-	-	-	-	DM	Discharge begins at 6 gpm.
10/15/92	1053	"	18	1024	-	-	-	4.0	DM	
10/15/92	1107	"	84	1108	-	-	-	2.1	DM	
10/15/92	1118	"	66	1174	-	-	-	2.1	DM	
10/15/92	1126	"	112	1286	-	-	-	-	DM	Discharge slows, shut pump off.
10/16/92	1058	-	-	-	-	-	-	-	PSE	Pulled pump. Well developed and ready for Lockheed.

Water level: pre-development 427.0' (G.S.); post-development 428.39' (T.O.C.)

SECOND ROUND OF DEVELOPMENT REQUESTED BY LOCKHEED