

Location ID: 100-B(2)-* Field Representative(s): P. Egan/S. DubykNorthing: 223085.99 Easting: 413332.71Date Started: 08/09/89 Date Completed: Plugged and abandoned
10/2/89Drilling Method: Mud/Air-Foam Rotary Drilling Contractor: Larjon DrillingDriller: T. CrawfordTotal Depth Borehole: 400' Total Depth Well Casing: no casing
installedTotal Depth Surface Casing: 78.5'Diameter Well Casing: -- Diameter Surface Casing: 10"Length of Bottom Blank: --Type of Screen: -- 0.02 slotScreen Interval: -- to --Water First Detected: never detected Water Level Open Borehole: 371.90'
(T.S.C.) after 18 days of recoveryWater Level Cased Borehole: --

Quik-Foam Use: 10 gallons

Estimated Water Use: 4900 gallons

Well Casing: No casing installed.

4 in x 3 ft SCD 40 PVC:

4 in x 5 ft SCD 40 PVC:

4 in x 10 ft SCD 40 PVC:

4 in x 20 ft SCD 40 PVC:

Total SCD 40 PVC pipe: 0 ft

stock SS centralizers:

custom SS centralizers:

4"x2' SS locking riser:

4" SS locking cap:

4" SS female cap:

4 in x 3 ft SCD 5 SS pipe:

4 in x 5 ft SCD 5 SS pipe:

4 in x 10 ft SCD 5 SS pipe:

4 in x 20 ft SCD 5 SS pipe:

Total SCD 5 SS pipe: 0 ft

4 in x 5 ft SCD 10 SS pipe:

4 in x 10 ft SCD 10 SS pipe:

4 in x 20 ft SCD 10 SS pipe:

Total SCD 10 SS pipe: 0 ft

Well Completion: Well not completed

100# bags 16/40 sand: 0 bags
100# bags 10/20 sand: 0 bags
100# bags 8/14 sand: 0 bags
100# bags 8/20 sand: 0 bags

94# bags cement: 0 bags

5 gal. buckets bentonite: 0 buckets

50# bentonite powder: 0 bags

Surface Casing:

94# bags cement: approx. 37 bags (Part of a full cement truck load used)

50# bags bentonite powder: 2 bags

Pertinent Field Notes:

08/09/89 Set up B.E. Rig with mud pump and associated equipment for mud drilling. Spud pilot hole, 12 ¼" bit. Drill 0'-38'. Used 900 gallons of water and 16 bags bentonite in mud goose. - Egan

08/10/89 Drill ; mud rotary, 12 ¼" bit, 38'-79'. Ream pilot hole to 16". Install 10" x 70.5' steel surface casing. - Egan

08/ 11/89 Grout surface casing. Used part of a full cement truck load used by second crew to plug and abandon piezometers. (Calculated grout usage: 37 bags cement and 2 bags gel.) Let grout cure while preparing for air foam rotary drilling. - Egan

08/ 14/89 Drill, air foam rotary, 9 7/8" bit, 79'-187'. Monitored both main and auxiliary compressors. 1350 gallons water used for drilling. - Egan

08/ 15/89 Drill, air foam rotary, 9 7/8" bit, 187'-212'. Andesite bedrock encountered at 185'. Compressor hose burned, shut rig down (4 hours) to replace. Re-enter hole with 9" hammer bit. Drill to 227'. No indication of water. Monitored main compressor only. Compressor filter and sampler are coated with carbon; replace filter and clean sampler. Will check for possible formation water in borehole in morning before resuming drilling. 950 gallons of water used for drilling. - Dubyk

- 08/16/89 Check for water in borehole 227' deep. No sign of water. Drill, air foam, 9" air hammer 227' to 300'. Stopped drilling at 300'. Let borehole recover for 1 hour. Check for water by blowing borehole with air only. No indication of water. Get permission from NASA to drill beyond 300' to find water zone. Commence drilling to 346.5'. Used 750 gallons of water during drilling. - Egan
- 08/17/89 Check for water in borehole 346.5' deep. No apparent formation water in borehole after overnight recovery. Commence drilling at 346.5' with air foam and 9" hammer bit. T.D. borehole at 400'. No sign of formation water while drilling 346.5'-401'. Used 650 gallons of water for drilling. - Egan
- 08/18/89 Check for water at borehole depth = 401'. Fluid level at 396.98' (measured from top of deflector). No apparent formation water. Will monitor groundwater recovery, if any, to decide if borehole should be completed as a monitor well. - Egan
- 08/21/89 Fluid level at 393.54' (measured from top of deflector) (1240 pm). - Egan
- 08/22/89 Fluid level at 391.73' (measured from top of surface casing, 1.2' lower the deflector) (1500). - Egan
- 08/24/89 Fluid level at 390.50' (top of surface casing) (0930). - Egan
- 08/28/89 Fluid level at 386.92' (T.S.C.) - Egan
- 08/29/89 Fluid level at 386.15' (T.S.C.) - Egan
- 08/30/89 Fluid level at 384.16' (T.S.C.) - Egan
- 09/01/89 Fluid level at 383.30' (T.S.C.) - Egan
- 09/05/89 Fluid level at 371.90' (T.S.C.) after 18 days of recovery. - Egan
- 09/06/89 It has been decided that 100-B(2) does not produce enough water to be completed as a monitor well. Borehole will be plugged and abandoned. - Egan
- 09/07/89 First load of grout installed. - Contaldo
- 09/11/89 Second load of grout installed. - Contaldo
- 09/12/89 Third load of grout installed to ground level. - Contaldo
- 10/02/89 Brass cap set. - Egan