

WELL SUMMARY

Location ID: 700-D-186 Field Representative(s): R. Cooper

Northing: 236500.18 Easting: 417181.92

Date Started: 11/10/89 Date Completed: 12/21/89

Drilling Method: Mud & Air-Foam Rotary Drilling Contractor: Larjon Drilling

Driller: Tommy Crawford

Total Depth Borehole: 205' Total Depth Well Casing: 201.6'

Total Depth Surface Casing: 54.0'

Diameter Well Casing: 4" Diameter Surface Casing: 10"

Length of Bottom Blank: 5.3'

Type of Screen: regular strength 0.02 slot

Screen Interval: 186.0' to 196.3'

Water First Detected: Not detected while drilling

Water Level Open Borehole: 172.9' (GL)

Water Level Cased Borehole: 175.4' (IC)

Quik-Foam Use: 5 gallons

Estimated Water Use: 3,200 gallons used while drilling - 1,350 gallons measured in mudpits = 1850 gallons lost to formation.

Well Casing:

4in x 3ft SCD 40 PVC:		stock SS centralizers:	
4in x 5ft SCD 40 PVC:	1	custom SS centralizers:	1
4in x 10ft SCD 40 PVC:	8	4"x2' SS locking riser:	0
4in x 20ft SCD 40 PVC:	3	4" SS locking cap:	1
Total SCD 40 PVC pipe:	145 ft	4" SS female cap:	1 ft
4in x 3ft SCD 5 SS pipe:	1		
4in x 5ft SCD 5 SS pipe:	1	4in x 5ft SCD 10 SS pipe:	
4in x 10ft SCD 5 SS pipe:	2	4in x 10ft SCD 10 SS pipe:	
4in x 20ft SCD 5 SS pipe:	1	4in x 20ft SCD 10 SS pipe:	
Total SCD 5 SS pipe:	48 ft	Total SCD 10 SS pipe:	ft

Well Completion:

100# bags 16/40 sand:	5	bags
100# bags 10/20 sand:		bags
100# bags 8/14 sand:		bags
100# bags 8/20 sand:	20	bags
94# bags cement:	75	bags
50# bentonite powder:	8	bags

Surface Casing:

94# bags cement:	28	bags
50# bags bentonite powder:	16	bags
Water	237	gallons

Pertinent Field Notes:

- 11/10/89 Set up to drill and mixed drilling mud. Spudded pilot with 12 ¼" tricone bit. Drilled to 53 ½'-54' and hit competent zone. - Cooper
- 11/13/89 Reamed borehole from 0'-54' using 16" tricone bit. Installed 10" surface casing to 54' and grouted casing to surface; 28 bags cement and 3 bags bentonite gel used to grout surface casing. - Contaldo
- 11/14/89 Steam-cleaned and set up to drill with air-foam. Drilled 54'-194' with no visible signs of water while drilling. Hard cemented zone encountered at 166' and bedrock between 180'-185'. - Cooper
- 11/15/89 Measured static water level at 173.3' and sounded the bottom of the borehole at 193.3'. Drilled from 194' to 205' using air-foam and the hammer bit. Blew hole dry and rinsed with clean water. Blew hole dry again and tried to monitor recovery with drill pipe still in hole, but attempts were unsuccessful. Well is producing water. - Cooper
- 11/16/89 Oxidizer venting in the 300 Area prevented access to well pad area. Loaded and steam-cleaned completion material. Replaced power steering pump on BE Rig and pulled submersible pump at 100-C-365. - Cooper

- 11/17/89 Morning work was detained because of Oxidizer venting in the 300 Area. Ran tremie & 55' of stainless casing and screen. Repaired mud pump and moved equipment off well site. - Cooper
- 11/18/89 No geophysical logs run. Started completion; finish running well casing, installed 8/20 gravel pack, 16/40 sand and pumped Benseal/E-Z mud plug. Bottom of well is at 201.59'. Top of screen at 186.04', 2.5' stick up, PVC & Stainless contact at 145.67'. - Cooper
- 11/20/89 Sounded the top of Benseal plug at 172.1'. Added 8/20 & 16/40 sand to 149.5' and added grout. Mixed 45 sacks cement, 5 sacks bentonite gel and 380 gallons water. Top of grout 65.4' below grade. - Cooper
- 11/27/89 Second load of grout added to surface. Mixed 30 sacks cement, 3 sacks bentonite gel and 250 gallons water. Steam-cleaned and set up for development. - Cooper
- 11/28/89 Surged well 15 times and bailed 8 times (\approx 35 gallons). Set submersible pump at 199' (intake). Start pumping development and pump \approx 38 gallons for the day. Water was very muddy. - Cooper
- 11/29/89 Development continued; see development sheet for details. - Cooper
- 12/21/89 Development completed and submersible pump removed. Concrete well pad poured and brass cap set. Well completed.