

WELL SUMMARY

Location ID: BLM-22-570 Field Representative(s): G. Contaldo, M. Canavén  
D. Menzie

Date Started: 07/13/90 Date Completed: 08/24/90

Northing: 229559.96 Easting: 406254.11

Brass Cap: 4606.84 Outer Casing: 4608.34 Inner Casing: 4608.87

Drilling Method: Mud/Air Foam Rotary Drilling Contractor: Larjon Drilling Co.

Driller: J. Gower

Total Depth Borehole: 608.5' Total Depth Well Casing: 597.0'

Total Depth Surface Casing: 70'

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

Length of Bottom Blank: 5.31'

Type of Screen: Extra strength 0.02 slot

Screen Interval: 570.21' to 591.69

Water First Detected: ≈580'-585' Water Level Open Borehole: 505.33'(TSC)

Water Level Cased Borehole: 505.98'(TOC)

Quik-Foam Use: 7 gallons

Estimated Water Use: 10,300 gallons

Well Casing:

4in x 3ft SCD 40 PVC:  
4in x 5ft SCD 40 PVC:  
4in x 10ft SCD 40 PVC:  
4in x 20ft SCD 40 PVC:  
Total SCD 40 PVC pipe: ft

stock SS centralizers:  
custom SS centralizers: 4  
4"x2' SS locking riser: 1  
4" SS locking cap: 1  
4" SS female cap: 1 ft  
ASTM male adaptor: 3  
Johnson male adaptor: 2

4in x 3ft SCD 5 SS pipe:  
4in x 5ft SCD 5 SS pipe:  
4in x 10ft SCD 5 SS pipe:  
4in x 20ft SCD 5 SS pipe:  
Total SCD 5 SS pipe: 380 ft

4in x 5ft SCD 10 SS pipe: 1  
4in x 10ft SCD 10 SS pipe: 19  
4in x 20ft SCD 10 SS pipe:  
Total SCD 10 SS pipe: 195 ft

Well Completion:

100# bags 16/40 sand:	18	bags
100# bags 10/20 sand:		bags
100# bags 8/14 sand:		bags
100# bags 8/20 sand:	24½	bags
94# bags cement:	180	bags
5 gal. buckets bentonite:		buckets
50# bentonite powder:	19	bags
Benseal:	½	bags

Surface Casing:

94# bags cement:	33	bags
50# bags bentonite powder:	3	bags
Grout:	0	bags

Pertinent Field Notes:

07/13/90 Drill pilot hole (7 7/8" bit) and ream hole (16" bit) from 0-70'. Used 900 gallons of water. - Menzie

07/16/90 Install 10" surface casing and grout. - Menzie

07/17/90 Remove Franks's rig, steamclean and set up BE rig, drill air/foam rotary (9 7/8" bit) 70' to 115'. Used 800 gallons of water. - Menzie

07/18/90 Drill Air/foam Rotary (9 7/8" bit) 115' to 215'. used 1,400 gallons water. - Menzie

07/19/90 Drill Air/foam Rotary (9 7/8" bit) 215' to 277', rig broke down, lost rotation. Used 1,500 gallons water. - Menzie

07/30/90 Drill Air/foam rotary (9 7/8" bit) 277' to 340'. Used 1,200 gallons water, encountered flow banded rhyolite bedrock at ≈334'. - Menzie

07/31/90 Drill Air/foam rotary (air hammer 9" bit) 340' to 500'. Used 1,800 gallons water, no water detected while drilling. - Menzie

08/01/90 Drill Air/foam Rotary (air hammer 9" bit) 500' to 585'. Used 1,500 gallons water, no water detected while drilling, possibly drilled through flow banded rhyolite into

volcanic epiclastics. - Menzie

- 08/02/90 Measured water level in open borehole at 523.77' (TSC), drilled Air/foam Rotary 99" air hammer bit) 585' to 605', used 400 gallons water. - Menzie
- 08/03/90 Measured water level in open borehole at 509.74' (TSC) in morning and 508.04' (TSC) in afternoon, sounded bottom of hole at 609.25' (TSC). - Menzie
- 08/04/90 Measured water level in open borehole at 506.51' (TSC) and witnessed geophysical logging of hole by Southwest Surveys. - Menzie
- 08/06/90 Sounded bottom of at 608.5'. Installed 4" S.S. casing, gravel pack, and benseal plug. - Menzie
- 08/07/90 Finish putting sand in above the benseal plug is gravel pack and pour first load of grout. - Menzie
- 08/08/90 Pour second load of grout. - Menzie
- 08/09/90 Pour last load of grout. - Menzie
- 08/10/90 Surge and bail for development. See development sheet. - Menzie
- 08/15/90 Surge and bail 20 times, set pump at 585', see development sheet. - Menzie
- 08/24/90 Well developed and pump pulled. - Menzie