

## WESTBAY WELL SUMMARY

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Location ID: 600-D Field Representative(s): Russell, Jacobs / Egan, Giles  
 Purpose of Well: RFI Monitoring Well (WB casing pulled and reinstalled 12/96 after packer failure was discovered\*)

Date Started: 12/14/94 Date Completed: 06/15/95  
 Date Re-completed: 12/06/96  
 Northing: 224628.39 Easting: 413549.19  
 Brass Cap: 4747.58 Outer Casing: 4749.26 Inner Casing: 4748.96

Drilling Method: mud/air foam rotary Drilling Contractor: Larjon

Driller: J. Gower/D. Sanchez

Total Depth Borehole: 880' (caved to 862.5' by 12/4/96) Total Depth Well Casing: 860'

Total Depth Surface Casing: 200'  
8.5" (0-200');

Diameter Borehole: 4.5" (200-880')

Diameter Well Casing: 1.5" Diameter Surface Casing: 5"

Sampling zones: 225' to 235'

Sampling zones: 355' to 375'

Sampling zones: 625' to 640'

Sampling zones: 845' to 860'

Water First Detected: not detected while drilling Water Level Open Borehole: not recorded

Water Level Cased Borehole: see pressure profiles

Estimated Water Use: 5500 gal. recorded

Well Casing:

1.5 in x 2 ft SCD 80 PVC:	<u>1</u>	=	<u>2</u>	ft
1.5 in x 5 ft SCD 80 PVC:	<u>5</u>	=	<u>25</u>	ft
1.5 in x 10 ft SCD 80 PVC:	<u>76</u>	=	<u>760</u>	ft
Total SCD 80 PVC pipe:			<u>787</u>	ft

5 ft MP packer:	<u>15</u>	=	<u>75</u>	ft
Regular coupling:	<u>77</u>			
Pumping port coupling:	<u>4</u>			
Measurement port coupling:	<u>15</u>			
End cap:	<u>1</u>			
Casing Clamp:	<u>0</u>			
Magnetic collar:	<u>4</u>			

\*All well information reflects final completion on 12/06/96.

Location ID: 600-D

Well Completion: not used for completion

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

Surface Casing:

94# bags cement:	≈ 52	bags	(calculated; not recorded)
50# bags bentonite powder:		bags	

Pertinent Field Notes: For more details, refer to Field Notebook #VI, pgs. 17-40, 49-54; "Casing Leak Tests" book pgs. 15-63. The following GCL information was reconstructed from field books 10/97).

12/14/94	Spud. Drill 8.5" borehole with mud rotary 0'-70'. - M. Jacobs
12/15/94	Drill mud rotary 70'-145'. - M. Russell
12/16/94	Drill mud rotary 145'-200'. - M. Russell
12/19/94	Attempted to set 200' X 5" OD surface casing. Borehole blocked at 32'. Pulled casing and cleared borehole. - M. Russell
12/20/94	Set 200' surface casing. - M. Russell
01/06/95	Drilled air foam rotary 200'-310' (4.5" diameter borehole). - M. Russell
01/09/95	Drilled air foam rotary 310'-360'. - M. Russell
01/10/95	Drilled air foam rotary 360'-450'. - M. Russell
01/11/95	Drilled air foam rotary 450'-515'. - M. Russell
01/12/95	Drilled air foam rotary 515'-570'. - M. Russell
01/13/95	Drilled air foam rotary 570'-600' (TD). Blow hole ≈ 3 hrs. See development sheet. - M. Russell
01/16/95	Southwest Surveys runs log suite. - M. Jacobs
01/17/95	H <sub>2</sub> O level 180'. Set Bennett Pump at 210'. Pumped 1.5 hrs. at 1-2 gpm. Purged ≈ 126 gallons. - M. Russell
01/18/95	Set straddle-packers 465'-485'. Continued development with Bennett Pump. - M. Russell

01/19/95 Continued development at  $\approx$  5 gpm.- M. Russell

01/20/95 Borehole not recovering very quickly (pumping dry each time pump is lowered in borehole). - M. Russell

02/09/95 Decision made to deepen borehole to improve water production. Mobilized to site and drilled 600'-615'. - M. Jacobs

02/10/95-02/22/95 No field notes recorded. During this time, drilling continued to 705'. Southwest Surveys re-logged borehole (per logs). - P. Egan

02/23/95 Set straddle-packers 644'-662' to measure water production through development - P. Egan

04/04/95 Continued drilling. Est. TD will be  $\approx$  800'. Drilled 700'-705' (cleaning hole). - M. Russell

04/05/95 Drilled 705'-715'. - P. Egan

04/06/95 Drilled 715'-727'. - M. Russell

04/07/95 Drilled 727'-750'. M. Russell

No field notes located for remainder of drilling and WB casing installation. - M. Canavan (10/15/97)

06/15/95 Installed WB casing to 875' (per casing installation log. - M. Canavan) (10/15/97)

06/16/95-06/18/95 Inflated 10 packers (per packer inflation records). - M. Canavan (10/15/97)

07/08/96-07/11/96 Performed casing leak tests with results indicative of leaking well. - G. Giles, P. Egan

10/16/96 Tested packer integrity (665'-670'). Apparently leaking. - G. Giles

12/02/96 Westbay personnel on-site (D. McEchlin). Decision made to pull WB casing. Perforated 2 packers. - G. Giles

12/03/96 Perforated remaining 8 packers. Began pulling on casing to loosen. - G. Giles

12/04/96 Pulled WB casing from borehole. Sounded bottom of borehole at 862.5'. Decontaminated casing to reinstall re-usable components. - G. Giles

12/05/96 Completed decon. of WB casing. Examined casing and replaced necessary components. Reinstalled 860' of casing with new packers. Had to modify design due to borehole caving. - G. Giles

12/06/96 Set up and inflated packers (see packer inflation sheets for details). - G. Giles