Cementing Report

Geothermal Resource Group

Well ID: AK-3

Well Name: AK-3

Field: Hot Springs Bay Va Sect: 5 Town: 112W Rng: S005 County: Aleutians East State: AK

Cement Job Information

Start Date/Time:	19-Aug-16 08:30	**Well Bore:**	Original Well Bore
Job Type:	PRIMARY	**String OD (ins):**	8.650
Well Section:	MOVE	**String Type:**	FULL
Cementing Co:	MAJOR	**Cementing Engineer:**	Kevin

Primary Job Detail

	Volume (bbls)	Pump Time	Rate (bbls/min)	Pressure (psi)
Conditioning Data:				
Cement Data:	2.2	4	0.5	0
Displacement Data:	2.6	4	0.6	0
Calc. Displacement Vol:				

☐ **Reciprocate Pipe?** ☑ **Batch Mix?** ☐ **Bump Plug?** **Bump Pressure:**

Returns to Surface: Not Defined ☑ **Cement at Surface?** **Volume (bbls):** 0.2

Calc Top of Cement (ft): **Excess (%):** 20.00 % **Avg. Hole Size (ins):** 11.000

Slurry Information

Type	Density	Yield	Sacks	Volume	Rate	Additives
LEAD	14.20		12	3.0	0.5	

Post Job Information

Liner Top Test (lbs/gal):		**Job Success?**	Yes
Actual Top of Cmt (ft):		**CBL Bond Quality:**	

Misc. Comments: Batch mix 12- 94lb sacks of portland cement in 96 gallons of fresh water, 14.2 ppg