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:	24-Aug-16 21:30	**Well Bore:**	Original Well Bore
Job Type:	SECONDARY	**String OD (ins):**	5.500
Well Section:	SURF	**String Type:**	FULL
Cementing Co:	MAJOR	**Cementing Engineer:**	

Secondary Job Details

Remedial Type:		**No. of Attempts:**	1
Breakdown Pressure (psi):		**Breakdown Rate (bbls/min):**	
Init. Injectn Pressure (psi):		**Initial Injectn Rate(bbls/min):**	
Final Injectn Pressure (psi):		**Final Injectn Rate (bbls/min):**	
Init. Shut In Pressure (psi):			
Hold Pressure (psi):		**Hold Time:**	
Bleed Back Volume (bbls):			

Slurry Information

Type	Density	Yield	Sacks	Volume	Rate	Additives
POSTFLSH	14.50		10	1.4	0.3	

Post Job Information

Liner Top Test (lbs/gal):		**Job Success?**	Yes
Actual Top of Cmt (ft):	0	**CBL Bond Quality:**	

Misc. Comments: Cement top job, after inital cement job mixed 10 sks of 92.4Lb/sks portland cement to keep annulus topped off as cement fell, begin the top off as soon as plug was down and cement began falling in 8" annulus.