Well Information 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

Operator:	City of Akutan	**Division:**	Other
Classification:	Exploration		
On/OffShore:	Onshore	**API No:**	
Latitude:	54°9'8"N	**Longitude:**	165°51'29"W
Section: 5	**Township:** 112W	**Range:**	S005
Field:	Hot Springs Bay Valley	**State:** AK **County:**	Aleutians East
Orig. RKB Elev (ft):	6.00	**Ground Elev (ft):**	41.00
Casing Head Elev (ft):		**Tubing Head Elev (ft):**	
Other Datum Point:	' above ground level for planning	**Other Datum Elev (ft):**	
		Spud Date:	18-Aug-16

Well Bore: Original Well Bore

Proposed TD (ft): 1,700 **ID No: 0** Depths are from RKB (estimated 5' above GL / 46' above MSL).

Target Zones for this Well Bore

		Top MD	Top TVD	Btm MD	Btm TVD
Main zone in TG-2	**From Prognosis:**	600	600	800	800
	Actual:				

Notes:

Hole Section Information

Section Plan: MOVE

Time/Cost Estimates:		**Size Hole:**		**Btm Depth MD:**	0	**TVD:**	0
Drill Days:		**Drill Cost:**	621,890	**Case/Eval Days:**	3	**Case/Eval Cost:**	79,050
Casing Plan:	**Type:**	FULL	**O.D:**		**Top MD:**	**Top TVD:**	
Weight:	**Grade:**		**Thread:**	WELD	**Btm MD:**	**Btm TVD:**	

Notes:

Section Plan: PERF

Time/Cost Estimates:		**Size Hole:**	3.789	**Btm Depth MD:**	1,700	**TVD:**	1,700
Drill Days:	7.5	**Drill Cost:**	257,625	**Case/Eval Days:**	2	**Case/Eval Cost:**	92,700
Casing Plan:	**Type:**	LINER	**O.D:**	3.500	**Top MD:**	700	**Top TVD:** 700
Weight:	7.7 **Grade:**	HQ	**Thread:**	Q	**Btm MD:**	1,700	**Btm TVD:** 1,700

Notes: 3.06" ID. (Coring: 10 hr/day @ 15'/hr). 1 extra day for injection testing is included in Eval days section.

Section Plan: PROD

Time/Cost Estimates:		**Size Hole:**	4.834	**Btm Depth MD:**	800	**TVD:**	800
Drill Days:	5	**Drill Cost:**	171,750	**Case/Eval Days:**	2	**Case/Eval Cost:**	60,700
Casing Plan:	**Type:**	FULL	**O.D:**	4.500	**Top MD:**	0	**Top TVD:** 0
Weight:	11.7 **Grade:**	K55	**Thread:**	VFJ	**Btm MD:**	800	**Btm TVD:** 800

Notes: Casing should be drifted to 4" ID. (Coring: 10 hr/day @ 15'/hr)

Section Plan: RIGDN

Time/Cost Estimates:		**Size Hole:**		**Btm Depth MD:**	1,700	**TVD:**	1,700
Drill Days:		**Drill Cost:**		**Case/Eval Days:**	4	**Case/Eval Cost:**	215,100
Casing Plan:	**Type:**		**O.D:**		**Top MD:**	**Top TVD:**	
Weight:	**Grade:**		**Thread:**		**Btm MD:**	**Btm TVD:**	

Notes:

Section Plan: SURF

Time/Cost Estimates:		**Size Hole:**	7.500	**Btm Depth MD:**	220	**TVD:**	220
Drill Days:	4.5	**Drill Cost:**	154,575	**Case/Eval Days:**	2	**Case/Eval Cost:**	60,700
Casing Plan:	**Type:**	FULL	**O.D:**	5.500	**Top MD:**	0	**Top TVD:** 0

Well Information 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

Well Bore: Original Well Bore

Weight:	15.5	**Grade:**	K55	**Thread:**	VFJ	**Btm MD:**	220	**Btm TVD:**	220

Notes: Casing should be drifted to 4.85" ID. (Coring/Drilling: 10 hr/day @ 5'/hr - startup delays)

GET SETUP TO SET AND CEMENT 8-5/8" - TO BE RUN IF THE TOP HOLE IS UNCONSOLIDATED (ADD 3 DAYS)

Actual Data:	TD Date	MD (ft)	TVD (ft)	Status
	04-Sep-16	1,955	1,955	OTHER

AFE Information

AFE No.	Description	Amount $
01		1,714,090

Job: Original

Date On Locn:	12-Aug-16	**Engineer(s):**	Monty Keown	**Permit:**	215-080
		Rig Tel No:	907-273-0057		
☐ **Tight Hole**		**Working Interest:**			