



December 16, 2024

Dawn N.S. Chang
Department of Land and Natural Resources
Kalanimoku Building
1151 Punchbowl St.
Honolulu, HI 96813

SUBJECT: PRODUCTION AND INJECTION REPORTS – NOVEMBER 2024

Dear Ms. Chang:

Pursuant to DLNR Regulation 18-183-86, Puna Geothermal Venture hereby submits the required production and injection reports.

Should you or your staff have any questions, please contact me at (808) 430-8679.

Sincerely,

Ronald P. Quesada
EH&S Manager

Attachment: 2024 November Production and Injection Reports

cc: PGV File

PUNA GEOTHERMAL VENTURE

COMBINED PRODUCTION DATA

DATE	STEAM FLOW (K LB)	BRINE FLOW (K LB)	TOTAL MASS (K LB)	% BRINE	% STEAM	AVG STEAM FLOW	AVG BRINE FLOW (K LB/HR)	AVG TOTAL MASS FLOW (K LB/HR)	AVG. NETPOWER (MW)			AVG WELLHEAD TEMP (F)	HRS ON PROD
									MAIN PLANT	BTM UNIT	TOTAL		
11/1/2024	11,312	21,977	33,289	66.0	34.0	471	916	1387	25.1	5.1	30.1	487	24
11/2/2024	11,661	21,728	33,389	65.1	34.9	486	905	1391	25.9	5.7	31.6	487	24
11/3/2024	11,584	22,630	34,214	66.1	33.9	483	943	1426	25.8	5.5	31.2	486	24
11/4/2024	11,515	22,946	34,461	66.6	33.4	480	956	1436	25.6	6.4	31.9	488	24
11/5/2024	10,975	23,025	33,999	67.7	32.3	457	959	1417	24.2	6.5	30.8	483	24
11/6/2024	11,537	23,464	35,001	67.0	33.0	481	978	1458	25.6	6.4	32.0	473	24
11/7/2024	11,594	21,826	33,420	65.3	34.7	483	909	1392	25.8	6.9	32.6	470	24
11/8/2024	11,677	24,600	36,277	67.8	32.2	487	1025	1512	26.0	7.0	33.0	467	24
11/9/2024	11,552	25,013	36,565	68.4	31.6	481	1042	1524	25.7	6.9	32.6	466	24
11/10/2024	11,719	25,849	37,568	68.8	31.2	488	1077	1565	26.1	7.0	33.1	467	24
11/11/2024	11,234	23,963	35,198	68.1	31.9	468	998	1467	24.9	5.6	30.5	469	24
11/12/2024	10,458	18,357	28,815	63.7	36.3	436	765	1201	23.0	4.6	27.6	469	24
11/13/2024	10,330	21,942	32,272	68.0	32.0	430	914	1345	22.7	4.7	27.3	466	24
11/14/2024	10,161	21,363	31,524	67.8	32.2	423	890	1314	22.2	4.5	26.8	469	24
11/15/2024	9,341	21,144	30,485	69.4	30.6	389	881	1270	20.2	4.5	24.7	472	24
11/16/2024	7,787	22,001	29,788	73.9	26.1	324	917	1241	16.4	4.7	21.1	466	24
11/17/2024	6,871	24,306	31,177	78.0	22.0	286	1013	1299	14.1	6.1	20.2	469	24
11/18/2024	8,202	28,757	36,959	77.8	22.2	342	1198	1540	17.4	7.6	25.0	463	24
11/19/2024	10,298	24,429	34,727	70.3	29.7	429	1018	1447	22.6	7.1	29.7	462	24
11/20/2024	10,710	24,366	35,075	69.5	30.5	446	1015	1461	23.6	7.1	30.7	468	24
11/21/2024	11,066	25,509	36,575	69.7	30.3	461	1063	1524	24.5	7.3	31.8	464	24
11/22/2024	11,675	25,628	37,303	68.7	31.3	486	1068	1554	26.0	7.0	33.0	458	24
11/23/2024	12,011	25,655	37,665	68.1	31.9	500	1069	1569	26.8	7.0	33.9	461	24
11/24/2024	12,034	25,931	37,965	68.3	31.7	501	1080	1582	26.9	7.2	34.1	459	24
11/25/2024	11,818	25,960	37,779	68.7	31.3	492	1082	1574	26.3	7.1	33.4	459	24
11/26/2024	11,749	25,697	37,446	68.6	31.4	490	1071	1560	26.2	7.2	33.4	460	24
11/27/2024	11,741	25,590	37,331	68.5	31.5	489	1066	1555	26.1	7.1	33.2	459	24
11/28/2024	11,849	25,322	37,171	68.1	31.9	494	1055	1549	26.4	7.2	33.6	458	24
11/29/2024	11,925	25,050	36,974	67.7	32.3	497	1044	1541	26.6	6.5	33.1	457	24
11/30/2024	11,945	25,189	37,134	67.8	32.2	498	1050	1547	26.6	7.4	34.0	454	24
Mo. Totals/Avg	328,328	719,218	1,047,545	68.7	31.3	456	999	1455	24.2	6.4	30.5	468	24

PUNA GEOTHERMAL VENTURE
PRODUCTION WELL DATA

DATE	KS-10		KS-14		KS-17		KS-18		KS-19		KS-22	
	AVG WHP (PSIG)	AVG WHT (F)	AVG WHP (PSIG)	AVG WHT (F)	AVG WHP (PSIG)	AVG WHT (F)	AVG WHP (PSIG)	AVG WHT (F)	AVG WHP (PSIG)	AVG WHT (F)	AVG WHP (PSIG)	AVG WHT (F)
11/1/2024			0	75	518	467	785	504	695	506	531	473
11/2/2024			0	75	515	468	844	509	706	501	522	471
11/3/2024			0	75	513	462	842	512	733	503	517	468
11/4/2024			0	75	512	466	813	515	698	501	516	471
11/5/2024			0	75	501	463	772	501	672	499	516	471
11/6/2024			0	73	474	456	628	485	495	482	518	468
11/7/2024			0	73	483	459	597	472	469	479	515	472
11/8/2024			0	73	471	455	596	476	442	471	504	467
11/9/2024			0	73	479	460	598	468	445	469	507	468
11/10/2024			0	73	490	460	601	473	453	467	499	467
11/11/2024			0	73	542	473	604	471	454	467	498	466
11/12/2024			0	73	543	473	594	473	450	464	493	466
11/13/2024			0	73	546	474	586	467	463	459	472	463
11/14/2024			0	73	544	465	581	477	461	474	482	462
11/15/2024			0	73	530	473	547	462	441	480	513	474
11/16/2024			0	73	514	459	523	473	432	467	538	468
11/17/2024			0	73	514	468	513	457	422	478	505	474
11/18/2024			0	73	519	467	534	457	445	458	480	469
11/19/2024			0	73	548	465	569	471	475	455	456	457
11/20/2024			0	73	529	470	569	467	627	473	458	461
11/21/2024			0	73	509	466	575	467	490	464	486	459
11/22/2024			0	73	504	457	578	466	442	453	455	455
11/23/2024			0	73	483	461	578	471	442	453	455	460
11/24/2024			0	73	464	457	578	466	441	452	451	460
11/25/2024			0	73	463	457	575	467	442	452	454	460
11/26/2024			0	73	466	458	570	470	447	452	453	460
11/27/2024			0	73	460	457	566	468	448	452	451	460
11/28/2024			0	73	456	455	565	467	449	452	451	458
11/29/2024			0	73	434	451	562	466	461	452	450	460
11/30/2024			0	73	425	446	558	460	453	452	450	460
Monthly Average			0	73	498	462	613	475	500	469	486	465

**PUNA GEOTHERMAL VENTURE
COMBINED INJECTION WELL DATA QUANTITIES OF FLUID INJECTED**

DATE	GEOFLUID KLB	WELL WATER KLB	RAW WATER KLB	TOTAL INJECTION		INJECTION		R22 GAL	R322 GAL	203 GAL	WPA-GG. GAL	G442 GAL	Bio- spurse GAL	NaOH GAL	Royal Purple GAL	98% Acid GAL
				KLB	GAL	KPH	GPM									
11/1/2024	33,289	0	0	33,289	4,084,094	1387	2,836	0	0	0	35	20	0	0	0	35
11/2/2024	33,389	0	0	33,389	4,096,385	1391	2,845	0	0	0	30	10	0	0	0	30
11/3/2024	34,214	0	0	34,214	4,197,597	1426	2,915	0	0	0	30	15	0	0	0	30
11/4/2024	34,461	0	0	34,461	4,227,906	1436	2,936	0	0	0	30	10	0	0	0	30
11/5/2024	33,999	0	0	33,999	4,171,257	1417	2,897	0	0	0	30	15	2	0	0	30
11/6/2024	35,001	0	0	35,001	4,294,141	1458	2,982	0	0	0	30	15	0	0	0	30
11/7/2024	33,420	0	0	33,420	4,100,147	1392	2,847	0	0	0	45	15	2	0	0	45
11/8/2024	36,277	0	0	36,277	4,450,675	1512	3,091	0	0	0	15	14	0	0	0	15
11/9/2024	36,565	0	0	36,565	4,486,031	1524	3,115	0	0	0	30	16	1	0	0	30
11/10/2024	37,568	0	0	37,568	4,609,057	1565	3,201	0	0	0	35	13	1	0	0	35
11/11/2024	35,198	0	0	35,198	4,318,276	1467	2,999	0	0	0	25	17	0	0	0	25
11/12/2024	28,815	0	0	28,815	3,535,262	1201	2,455	0	0	0	35	14	0	0	0	35
11/13/2024	32,272	0	0	32,272	3,959,380	1345	2,750	0	0	0	30	16	0	0	0	30
11/14/2024	31,524	0	0	31,524	3,867,642	1314	2,686	0	0	0	30	12	0	0	0	30
11/15/2024	30,485	0	0	30,485	3,740,146	1270	2,597	0	0	0	40	13	0	0	0	40
11/16/2024	29,788	0	0	29,788	3,654,559	1241	2,538	0	0	0	15	15	1	0	0	15
11/17/2024	31,177	0	0	31,177	3,824,958	1299	2,656	0	0	0	40	15	2	0	0	40
11/18/2024	36,959	0	0	36,959	4,534,420	1540	3,149	0	0	0	35	14	0	0	0	35
11/19/2024	34,727	0	0	34,727	4,260,589	1447	2,959	0	0	0	20	14	0	0	0	20
11/20/2024	35,075	0	0	35,075	4,303,275	1461	2,988	0	0	0	45	14	0	0	0	45
11/21/2024	36,575	0	0	36,575	4,487,235	1524	3,116	0	0	0	25	13	0	0	0	25
11/22/2024	37,303	0	0	37,303	4,576,621	1554	3,178	0	0	0	15	20	2	0	0	15
11/23/2024	37,665	0	0	37,665	4,621,030	1569	3,209	0	0	0	5	11	0	0	0	5
11/24/2024	37,965	0	0	37,965	4,657,851	1582	3,235	0	0	0	10	19	0	0	0	10
11/25/2024	37,779	0	0	37,779	4,634,937	1574	3,219	0	0	0	30	12	1	0	0	30
11/26/2024	37,446	0	0	37,446	4,594,182	1560	3,190	0	0	0	25	18	1	0	0	25
11/27/2024	37,331	0	0	37,331	4,580,019	1555	3,181	0	0	0	35	15	0	0	0	35
11/28/2024	37,171	0	0	37,171	4,560,379	1549	3,167	0	0	0	12	15	0	0	0	12
11/29/2024	36,974	0	0	36,974	4,536,250	1541	3,150	0	0	0	48	12	1	0	0	48
11/30/2024	37,134	0	0	37,134	4,555,808	1547	3,164	0	0	0	20	18	0	0	0	20
Total	1,047,545	0	0	1,047,545	128,520,109	43,648	89,250	0	0	0	850	440	14	0	0	850
Minimum	28,815	0	0	28,815	3,535,262	1,201	2,455	0	0	0	5	10	0	0	0	5
Average	34,918	0	0	34,918	4,284,004	1,455	2,975	0	0	0	28	15	0	0	0	28
Maximum	37,965	0	0	37,965	4,657,851	1,582	3,235	0	0	0	48	20	2	0	0	48

PUNA GEOTHERMAL VENTURE

KS-3 INJECTION WELL DATA QUANTITIES OF FLUID INJECTED

DATE	HRS ON INJ.	GEO-FLUID (KLB)	SUPPLY Water (KLB)	TOTAL		AVERAGE INJ. RATE		WELLHEAD PRESS. (PSIG)		AVERAGE ANNULUS N2 PRESS (PSIG)	AVERAGE INJ TEMP (DEG F)
				KBL	GAL	KPH	GPM	AVG	MAX		
11/1/2024	24	7	0	7	926	0	1	140	140	960	80
11/2/2024	24	7	0	7	858	0	1	133	140	968	77
11/3/2024	24	7	0	7	858	0	1	135	135	960	76
11/4/2024	24	0	0	0	53	0	0	140	145	923	67
11/5/2024	24	3	0	3	391	0	0	155	160	908	78
11/6/2024	24	4	0	4	513	0	0	193	195	1020	81
11/7/2024	24	2	0	2	227	0	0	200	200	983	70
11/8/2024	24	0	0	0	0	0	0	218	220	945	74
11/9/2024	24	0	0	0	0	0	0	223	225	930	77
11/10/2024	0	0	0	0	0	0	0	75	75	750	65
11/11/2024	0	0	0	0	0	0	0	75	75	735	66
11/12/2024	0	0	0	0	0	0	0	82	89	728	67
11/13/2024	0	0	0	0	0	0	0	78	80	705	71
11/14/2024	0	0	0	0	0	0	0	78	80	698	72
11/15/2024	0	0	0	0	0	0	0	80	80	683	75
11/16/2024	0	0	0	0	0	0	0	78	80	668	75
11/17/2024	0	0	0	0	0	0	0	80	80	645	72
11/18/2024	0	0	0	0	0	0	0	77	78	638	81
11/19/2024	0	0	0	0	0	0	0	77	78	615	69
11/20/2024	0	0	0	0	0	0	0	74	78	608	72
11/21/2024	0	0	0	0	0	0	0	77	78	593	68
11/22/2024	0	0	0	0	0	0	0	78	80	585	74
11/23/2024	0	0	0	0	0	0	0	79	80	570	73
11/24/2024	0	0	0	0	0	0	0	85	90	555	72
11/25/2024	0	0	0	0	0	0	0	79	80	540	69
11/26/2024	0	0	0	0	0	0	0	80	80	533	75
11/27/2024	0	0	0	0	0	0	0	79	80	518	73
11/28/2024	0	0	0	0	0	0	0	80	80	503	74
11/29/2024	0	0	0	0	0	0	0	80	80	488	71
11/30/2024	0	0	0	0	0	0	0	80	80	473	74
Total	216	31	0	31	3826						
Minimum	0	0	0	0	0	0	0	74	75	473	65
Average	7	1	0	1	128	0	0	106	108	714	73
Maximum	24	7	0	7	926	0	1	223	225	1020	81

PUNA GEOTHERMAL VENTURE

KS-11 INJECTION WELL DATA QUANTITIES OF FLUID INJECTED

DATE	HRS ON INJ.	GEO-FLUID (KLB)	SUPPLY Water (KLB)	TOTAL		AVERAGE INJ. RATE		WELLHEAD PRESS. (PSIG)		AVERAGE ANNULUS N2 PRESS (PSIG)	AVERAGE INJ TEMP (DEG F)
				KBL	GAL	KPH	GPM	AVG	MAX		
11/1/2024	0	0	0	0	0	0	0	20	20	30	80
11/2/2024	0	0	0	0	0	0	0	20	20	30	75
11/3/2024	0	0	0	0	0	0	0	18	20	30	70
11/4/2024	0	0	0	0	0	0	0	20	20	30	70
11/5/2024	0	0	0	0	0	0	0	18	20	30	78
11/6/2024	0	0	0	0	0	0	0	20	21	30	70
11/7/2024	0	0	0	0	0	0	0	22	22	30	77
11/8/2024	0	0	0	0	0	0	0	21	22	30	72
11/9/2024	0	0	0	0	0	0	0	22	22	30	70
11/10/2024	0	0	0	0	0	0	0	23	23	30	70
11/11/2024	0	0	0	0	0	0	0	23	23	30	75
11/12/2024	0	0	0	0	0	0	0	21	21	30	71
11/13/2024	0	0	0	0	0	0	0	21	21	30	77
11/14/2024	0	0	0	0	0	0	0	18	20	30	72
11/15/2024	0	0	0	0	0	0	0	20	20	30	79
11/16/2024	0	0	0	0	0	0	0	18	20	30	72
11/17/2024	0	0	0	0	0	0	0	20	20	30	70
11/18/2024	0	0	0	0	0	0	0	21	21	30	75
11/19/2024	0	0	0	0	0	0	0	21	21	30	74
11/20/2024	0	0	0	0	0	0	0	20	20	30	75
11/21/2024	0	0	0	0	0	0	0	19	20	30	73
11/22/2024	0	0	0	0	0	0	0	18	20	30	70
11/23/2024	0	0	0	0	0	0	0	21	21	30	70
11/24/2024	0	0	0	0	0	0	0	21	21	30	70
11/25/2024	0	0	0	0	0	0	0	21	22	30	73
11/26/2024	0	0	0	0	0	0	0	21	22	30	73
11/27/2024	0	0	0	0	0	0	0	21	22	30	71
11/28/2024	0	0	0	0	0	0	0	21	22	30	71
11/29/2024	0	0	0	0	0	0	0	21	21	30	70
11/30/2024	0	0	0	0	0	0	0	21	22	30	70
Total	0	0	0	0	0						
Minimum	0	0	0	0	0	0	0	18	20	30	70
Average	0	0	0	0	0	0	0	20	21	30	73
Maximum	0	0	0	0	0	0	0	23	23	30	80

PUNA GEOTHERMAL VENTURE

KS-13 INJECTION WELL DATA QUANTITIES OF FLUID INJECTED

DATE	HRS ON INJ.	GEO-FLUID (KLB)	SUPPLY Water (KLB)	TOTAL		AVERAGE INJ. RATE		WELLHEAD PRESS. (PSIG)		AVERAGE ANNULUS N2 PRESS (PSIG)	AVERAGE INJ TEMP (DEG F)
				KBL	GAL	KPH	GPM	AVG	MAX		
11/1/2024	24	44	0	44	5466	2	4	109	110	683	93
11/2/2024	24	23	0	23	2884	1	2	110	110	653	85
11/3/2024	24	13	0	13	1622	1	1	120	120	630	84
11/4/2024	24	4	0	4	556	0	0	125	130	608	78
11/5/2024	24	22	0	22	2725	1	2	130	130	825	88
11/6/2024	24	37	0	37	4522	1	3	168	170	1118	144
11/7/2024	24	78	0	78	9594	3	7	170	175	1050	148
11/8/2024	24	62	0	62	7618	2	5	191	191	1013	150
11/9/2024	24	60	0	60	7375	2	5	200	200	968	150
11/10/2024	24	15	0	15	1819	1	1	198	200	1005	123
11/11/2024	24	47	0	47	5816	2	4	210	210	990	135
11/12/2024	24	6	0	6	791	0	1	220	225	945	163
11/13/2024	24	71	0	71	8734	3	6	228	230	915	166
11/14/2024	24	58	0	58	7179	2	5	228	230	900	171
11/15/2024	24	23	0	23	2806	1	2	238	240	923	184
11/16/2024	24	7	0	7	874	0	1	250	260	983	195
11/17/2024	24	5	0	5	666	0	0	233	235	983	175
11/18/2024	24	7	0	7	880	0	1	230	230	960	172
11/19/2024	24	35	0	35	4343	1	3	167	175	900	165
11/20/2024	24	285	0	285	35173	11	24	143	145	848	153
11/21/2024	24	134	0	134	16526	5	11	163	180	885	160
11/22/2024	24	1350	0	1350	166841	54	116	193	200	893	173
11/23/2024	24	1525	0	1525	188437	61	131	200	200	1035	170
11/24/2024	24	1499	0	1499	185329	60	129	200	200	1148	168
11/25/2024	24	1546	0	1546	191074	61	133	200	200	1118	170
11/26/2024	24	1556	0	1556	192346	62	134	200	200	1088	173
11/27/2024	24	1604	0	1604	198226	64	138	201	202	1178	171
11/28/2024	24	1672	0	1672	206607	66	143	195	195	1133	170
11/29/2024	24	1739	0	1739	214876	69	149	185	190	1095	170
11/30/2024	24	1758	0	1758	217279	70	151	201	202	1223	168
Total	720	15283	0	15283	1888984						
Minimum	24	4	0	4	556	0	0	109	110	608	78
Average	24	509	0	509	62966	20	44	187	190	956	150
Maximum	24	1758	0	1758	217279	70	151	250	260	1223	195

PUNA GEOTHERMAL VENTURE

KS-15 INJECTION WELL DATA QUANTITIES OF FLUID INJECTED

DATE	HRS ON INJ.	GEO-FLUID (KLB)	SUPPLY Water (KLB)	TOTAL		AVERAGE INJ. RATE		WELLHEAD PRESS. (PSIG)		AVERAGE ANNULUS N2 PRESS (PSIG)	AVERAGE INJ TEMP (DEG F)
				KBL	GAL	KPH	GPM	AVG	MAX		
11/1/2024	24	34	0	34	4146	1	3	109	110	683	93
11/2/2024	24	11	0	11	1404	0	1	110	110	653	85
11/3/2024	24	17	0	17	2152	1	1	120	120	630	84
11/4/2024	24	54	0	54	6730	2	5	125	130	608	78
11/5/2024	24	39	0	39	4858	2	3	130	130	825	88
11/6/2024	24	62	0	62	7672	2	5	168	170	1118	144
11/7/2024	24	8	0	8	1044	0	1	170	175	1050	148
11/8/2024	24	103	0	103	12764	4	9	191	191	1013	150
11/9/2024	24	128	0	128	15778	5	11	200	200	968	150
11/10/2024	24	59	0	59	7338	2	5	198	200	1005	123
11/11/2024	24	46	0	46	5682	2	4	210	210	990	135
11/12/2024	24	106	0	106	13092	4	9	220	225	945	163
11/13/2024	24	115	0	115	14249	5	10	228	230	915	166
11/14/2024	24	86	0	86	10615	3	7	228	230	900	171
11/15/2024	9	3	0	3	377	0	0	238	240	923	184
11/16/2024	0	0	0	0	0	0	0	250	260	983	195
11/17/2024	0	0	0	0	0	0	0	233	235	983	175
11/18/2024	0	0	0	0	0	0	0	230	230	960	172
11/19/2024	0	0	0	0	0	0	0	167	175	900	165
11/20/2024	0	0	0	0	0	0	0	143	145	848	153
11/21/2024	0	0	0	0	0	0	0	163	180	885	160
11/22/2024	0	0	0	0	0	0	0	193	200	893	173
11/23/2024	0	0	0	0	0	0	0	200	200	1035	170
11/24/2024	0	0	0	0	0	0	0	200	200	1148	168
11/25/2024	0	0	0	0	0	0	0	200	200	1118	170
11/26/2024	0	0	0	0	0	0	0	200	200	1088	173
11/27/2024	0	0	0	0	0	0	0	201	202	1178	171
11/28/2024	0	0	0	0	0	0	0	195	195	1133	170
11/29/2024	0	0	0	0	0	0	0	185	190	1095	170
11/30/2024	0	0	0	0	1	0	0	201	202	1223	168
Total	345	873	0	873	107902						
Minimum	0	0	0	0	0	0	0	109	110	608	78
Average	12	29	0	29	3597	1	2	187	190	956	150
Maximum	24	128	0	128	15778	5	11	250	260	1223	195

PUNA GEOTHERMAL VENTURE

KS-20 INJECTION WELL DATA QUANTITIES OF FLUID INJECTED

DATE	HRS ON INJ.	GEO-FLUID (KLB)	SUPPLY Water (KLB)	TOTAL		AVERAGE INJ. RATE		WELLHEAD PRESS. (PSIG)		AVERAGE ANNULUS N2 PRESS (PSIG)	AVERAGE INJ TEMP (DEG F)
				KBL	GAL	KPH	GPM	AVG	MAX		
11/1/2024	24	3883	0	3883	479972	154	333	75	125	1080	168
11/2/2024	24	3791	0	3791	468535	151	325	105	110	1065	162
11/3/2024	24	3753	0	3753	463881	149	322	110	110	1065	164
11/4/2024	24	3860	0	3860	477087	153	331	119	120	1073	168
11/5/2024	24	4046	0	4046	500039	161	347	133	135	1080	163
11/6/2024	24	4702	0	4702	581196	187	404	168	176	1095	166
11/7/2024	24	4949	0	4949	611633	197	425	168	170	1103	173
11/8/2024	24	5102	0	5102	630573	203	438	193	195	1110	168
11/9/2024	24	5154	0	5154	636978	205	442	194	197	1110	168
11/10/2024	24	5192	0	5192	641688	206	446	190	193	1110	166
11/11/2024	24	4826	0	4826	596499	192	414	202	210	1148	192
11/12/2024	24	423	0	423	52339	17	36	215	220	1148	190
11/13/2024	24	4129	0	4129	510354	164	354	222	225	1155	198
11/14/2024	24	4084	0	4084	504732	162	351	222	225	1155	190
11/15/2024	24	3945	0	3945	487537	157	339	225	230	1155	212
11/16/2024	24	3891	0	3891	480921	155	334	240	250	1170	206
11/17/2024	24	4061	0	4061	501981	161	349	230	240	1148	180
11/18/2024	24	4577	0	4577	565668	182	393	225	229	1140	173
11/19/2024	24	4386	0	4386	542075	174	376	168	175	1103	162
11/20/2024	24	4397	0	4397	543404	175	377	144	148	1088	166
11/21/2024	24	4551	0	4551	562549	181	391	160	180	1095	170
11/22/2024	24	4594	0	4594	567860	183	394	188	195	1110	173
11/23/2024	24	4583	0	4583	566498	182	393	195	195	1110	174
11/24/2024	24	4642	0	4642	573684	184	398	200	200	1110	180
11/25/2024	24	4584	0	4584	566578	182	393	200	200	1125	173
11/26/2024	24	4531	0	4531	560001	180	389	199	199	1110	170
11/27/2024	24	4496	0	4496	555698	179	386	197	199	1118	176
11/28/2024	24	4419	0	4419	546200	176	379	189	189	1118	170
11/29/2024	24	4274	0	4274	528216	170	367	180	185	1103	170
11/30/2024	24	4300	0	4300	531515	171	369	194	197	1118	173
Total	720	128125	0	128125	15835891						
Minimum	24	423	0	423	52339	17	36	75	110	1065	162
Average	24	4271	0	4271	527863	170	367	181	187	1114	175
Maximum	24	5192	0	5192	641688	206	446	240	250	1170	212

PUNA GEOTHERMAL VENTURE

KS-21 INJECTION WELL DATA QUANTITIES OF FLUID INJECTED

DATE	HRS ON INJ.	GEO-FLUID (KLB)	SUPPLY Water (KLB)	TOTAL		AVERAGE INJ. RATE		WELLHEAD PRESS. (PSIG)		AVERAGE ANNULUS N2 PRESS (PSIG)	AVERAGE INJ TEMP (DEG F)
				KBL	GAL	KPH	GPM	AVG	MAX		
11/1/2024	24	29075	0	29075	3593584	1155	2496	65	105	956	169
11/2/2024	24	29311	0	29311	3622704	1165	2516	103	110	933	164
11/3/2024	24	30171	0	30171	3729084	1199	2590	108	110	934	170
11/4/2024	24	30288	0	30288	3743480	1204	2600	120	120	922	171
11/5/2024	24	29639	0	29639	3663244	1178	2544	135	135	946	171
11/6/2024	24	29938	0	29938	3700238	1190	2570	165	170	981	176
11/7/2024	24	28137	0	28137	3477649	1118	2415	165	170	943	173
11/8/2024	24	30743	0	30743	3799720	1222	2639	195	195	994	178
11/9/2024	24	30955	0	30955	3825900	1230	2657	199	200	928	174
11/10/2024	24	32025	0	32025	3958212	1273	2749	193	195	931	170
11/11/2024	24	30019	0	30019	3710279	1193	2577	219	220	971	216
11/12/2024	24	28067	0	28067	3469040	1115	2409	223	228	1004	208
11/13/2024	24	27720	0	27720	3426043	1101	2379	226	230	1003	210
11/14/2024	24	27065	0	27065	3345116	1075	2323	226	230	971	211
11/15/2024	24	26291	0	26291	3249426	1045	2257	228	230	980	214
11/16/2024	24	25670	0	25670	3172764	1020	2203	245	250	981	218
11/17/2024	24	26880	0	26880	3322311	1068	2307	228	235	957	180
11/18/2024	24	32103	0	32103	3967872	1276	2755	228	230	946	178
11/19/2024	24	30051	0	30051	3714171	1194	2579	168	175	927	172
11/20/2024	24	30136	0	30136	3724698	1197	2587	145	150	938	170
11/21/2024	24	31620	0	31620	3908160	1256	2714	163	185	960	172
11/22/2024	24	31084	0	31084	3841920	1235	2668	194	200	919	177
11/23/2024	24	31280	0	31280	3866095	1243	2685	200	200	934	180
11/24/2024	24	31545	0	31545	3898838	1253	2708	201	202	998	180
11/25/2024	24	31370	0	31370	3877285	1247	2693	200	200	1026	174
11/26/2024	24	31084	0	31084	3841835	1235	2668	200	200	918	175
11/27/2024	24	30956	0	30956	3826095	1230	2657	200	200	963	182
11/28/2024	24	30806	0	30806	3807572	1224	2644	190	190	963	173
11/29/2024	24	30690	0	30690	3793158	1220	2634	180	185	990	175
11/30/2024	24	30802	0	30802	3807013	1224	2644	194	197	1048	173
Total	720	895521	0	895521	110683506						
Minimum	24	25670	0	25670	3172764	1020	2203	65	105	918	164
Average	24	29851	0	29851	3689450	1186	2562	183	188	962	182
Maximum	24	32103	0	32103	3967872	1276	2755	245	250	1048	218