

August 28, 2025

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

**SUBJECT: PRODUCTION AND INJECTION REPORTS – JULY 2025**

Dear Chairperson Chang:

Pursuant to DLNR Regulation 18-183-86, Puna Geothermal Venture hereby submits the required production and injection reports for July 2025.

Should you or your staff have any questions, please contact me at (808) 965-2847 or email @spakele@ormat.com.

Sincerely,



Summer Pakele  
Environmental Compliance Coordinator

Attachment: 2025 July Production and Injection Reports

cc:

Philip M. Nigro, DLNR Geologist II, Engineering Division  
Gayson Ching, DLNR Project Management and Mineral Resources Branch Chief  
Megan Hubbard, DLNR Mineral Resources Specialist  
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		
7/1/2025	4,832	15,464	20,296	76.2	23.8	201	644	846	9.1	4.2	13.2	458	24
7/2/2025	4,960	15,294	20,255	75.5	24.5	207	637	844	9.4	3.9	13.3	477	24
7/3/2025	5,119	16,467	21,586	76.3	23.7	213	686	899	9.8	4.1	13.9	474	24
7/4/2025	5,119	15,716	20,835	75.4	24.6	213	655	868	9.8	4.1	13.9	473	24
7/5/2025	6,287	19,417	25,703	75.5	24.5	262	809	1071	12.7	4.5	17.2	418	24
7/6/2025	6,660	21,287	27,947	76.2	23.8	277	887	1164	13.6	5.8	19.4	459	24
7/7/2025	6,810	20,938	27,748	75.5	24.5	284	872	1156	14.0	5.7	19.6	454	24
7/8/2025	7,348	23,356	30,705	76.1	23.9	306	973	1279	15.3	6.3	21.6	466	24
7/9/2025	8,089	20,675	28,764	71.9	28.1	337	861	1198	17.1	5.6	22.7	502	24
7/10/2025	9,594	20,898	30,492	68.5	31.5	400	871	1271	20.8	5.6	26.4	496	24
7/11/2025	10,343	15,767	26,111	60.4	39.6	431	657	1088	22.7	5.3	28.0	488	24
7/12/2025	11,000	19,594	30,594	64.0	36.0	458	816	1275	24.3	5.4	29.7	480	24
7/13/2025	9,906	20,895	30,802	67.8	32.2	413	871	1283	21.6	5.5	27.1	493	24
7/14/2025	8,939	19,895	28,834	69.0	31.0	372	829	1201	19.2	5.5	24.8	493	24
7/15/2025	9,366	21,621	30,988	69.8	30.2	390	901	1291	20.3	5.8	26.1	498	24
7/16/2025	9,719	22,174	31,893	69.5	30.5	405	924	1329	21.1	5.8	27.0	485	24
7/17/2025	10,170	21,220	31,390	67.6	32.4	424	884	1308	22.3	5.6	27.9	493	24
7/18/2025	10,895	21,950	32,845	66.8	33.2	454	915	1369	24.1	5.7	29.8	476	24
7/19/2025	11,493	22,016	33,508	65.7	34.3	479	917	1396	25.5	5.6	31.2	472	24
7/20/2025	11,582	22,326	33,908	65.8	34.2	483	930	1413	25.7	5.6	31.4	471	24
7/21/2025	11,516	22,573	34,089	66.2	33.8	480	941	1420	25.6	5.8	31.3	466	24
7/22/2025	11,488	22,385	33,873	66.1	33.9	479	933	1411	25.5	5.6	31.1	470	24
7/23/2025	11,425	21,233	32,658	65.0	35.0	476	885	1361	25.4	5.7	31.0	471	24
7/24/2025	11,456	21,951	33,406	65.7	34.3	477	915	1392	25.4	5.8	31.3	471	24
7/25/2025	11,457	24,363	35,820	68.0	32.0	477	1015	1493	25.4	5.9	31.3	473	24
7/26/2025	11,275	24,413	35,688	68.4	31.6	470	1017	1487	25.0	5.8	30.8	464	24
7/27/2025	11,289	23,159	34,448	67.2	32.8	470	965	1435	25.0	5.7	30.7	464	24
7/28/2025	11,289	23,881	35,170	67.9	32.1	470	995	1465	24.8	5.7	30.5	468	24
7/29/2025	11,197	23,213	34,410	67.5	32.5	467	967	1434	24.5	5.7	30.2	468	24
7/30/2025	11,076	23,401	34,477	67.9	32.1	461	975	1437	24.2	5.7	29.9	467	24
7/31/2025	10,948	22,955	33,903	67.7	32.3	456	956	1413	23.4	5.9	29.2	474	24
Mo. Totals/Avg	292,647	650,498	943,146	69.4	30.6	393	874	1268	20.4	5.4	25.8	474	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)
7/1/2025			0	78	592	481	706	502	653	499	311	351
7/2/2025			0	75	593	481	705	501	656	500	436	425
7/3/2025			0	71	593	468	695	504	648	493	506	430
7/4/2025			0	71	593	466	696	501	675	496	540	430
7/5/2025			0	71	377	456	639	491	691	500	562	227
7/6/2025			0	72	361	427	711	473	700	501	575	435
7/7/2025			0	72	356	424	715	493	704	507	588	393
7/8/2025			0	72	502	424	571	480	851	528	482	432
7/9/2025			0	74	593	481	582	481	1010	549	636	497
7/10/2025			0	74	596	482	554	476	849	528	646	498
7/11/2025			0	74	597	466	595	483	750	512	645	493
7/12/2025			0	70	595	463	552	480	621	486	641	491
7/13/2025			0	75	591	465	558	477	980	540	637	492
7/14/2025			0	75	591	467	550	474	1025	542	639	491
7/15/2025			0	75	590	481	580	481	864	532	642	498
7/16/2025			0	76	589	481	513	468	632	492	645	498
7/17/2025			0	75	591	481	528	471	804	522	641	498
7/18/2025			0	76	586	483	505	465	453	457	638	498
7/19/2025			0	76	584	466	504	467	461	462	638	492
7/20/2025			0	76	573	465	497	468	453	462	627	491
7/21/2025			0	76	565	463	494	465	449	457	626	480
7/22/2025			0	76	555	462	492	465	452	457	624	495
7/23/2025			0	78	540	471	484	462	449	458	621	494
7/24/2025			0	76	528	469	484	463	450	459	620	494
7/25/2025			0	80	522	468	480	471	453	460	616	495
7/26/2025			0	77	511	458	459	456	452	457	609	487
7/27/2025			0	77	500	456	453	456	452	455	612	489
7/28/2025			0	74	495	463	452	455	447	464	610	492
7/29/2025			0	74	510	462	455	464	449	457	607	488
7/30/2025			0	75	520	457	456	465	452	458	605	488
7/31/2025			0	74	503	464	472	461	546	478	600	492
Monthly Average			0	75	542	464	553	475	630	489	594	466



# PUNA GEOTHERMAL VENTURE

## COMBINED INJECTION WELL DATA QUANTITIES OF FLUID INJECTED

DATE	GEOFLUID KLB	WE LL WATER KLB	RAW WATER KLB	TOTAL INJE CTION		INJECTION		(R)22 GAL	R322 GAL	203 GAL	WPA-GG GAL	G442 GAL	Bio- sperse GAL	NaOH GAL	Royal Purple GAL	98% Acid GAL
				KLB	GAL	KPH	GPM									
7/1/2025	20,296	0	0	20,296	2,490,109	846	1,729	0	0	0	24	5	0	0	0	7
7/2/2025	20,255	0	0	20,255	2,484,991	844	1,726	0	0	0	24	5	0	0	0	7
7/3/2025	21,586	0	0	21,586	2,648,305	899	1,839	0	0	0	24	5	0	0	0	7
7/4/2025	20,835	0	0	20,835	2,556,134	868	1,775	0	0	0	24	5	0	0	0	7
7/5/2025	25,703	0	0	25,703	3,153,456	1071	2,190	0	0	0	24	5	0	0	0	7
7/6/2025	27,947	0	0	27,947	3,428,680	1164	2,381	0	0	0	30	10	0	0	0	5
7/7/2025	27,748	0	0	27,748	3,404,372	1156	2,364	0	0	0	30	10	1	0	0	6
7/8/2025	30,705	0	0	30,705	3,767,044	1279	2,616	0	0	0	25	10	0	0	0	6
7/9/2025	28,764	0	0	28,764	3,528,954	1198	2,451	0	0	0	25	5	0	0	0	7
7/10/2025	30,492	0	0	30,492	3,741,027	1271	2,598	0	0	0	20	10	0	0	0	7
7/11/2025	26,111	0	0	26,111	3,203,465	1088	2,225	0	0	0	20	10	0	0	0	7
7/12/2025	30,594	0	0	30,594	3,753,513	1275	2,607	0	0	0	40	10	0	0	0	12
7/13/2025	30,802	0	0	30,802	3,778,949	1283	2,624	0	0	0	10	10	1	0	0	13
7/14/2025	28,834	0	0	28,834	3,537,567	1201	2,457	0	0	0	30	5	1	0	0	14
7/15/2025	30,988	0	0	30,988	3,801,761	1291	2,640	0	0	0	20	10	0	0	0	13
7/16/2025	31,893	0	0	31,893	3,912,808	1329	2,717	0	0	0	30	10	0	0	0	14
7/17/2025	31,390	0	0	31,390	3,851,132	1308	2,674	0	0	0	15	7	0	0	0	13
7/18/2025	32,845	0	0	32,845	4,029,662	1369	2,798	0	0	0	25	8	0	0	0	14
7/19/2025	33,508	0	0	33,508	4,111,011	1396	2,855	0	0	0	20	10	0	0	0	14
7/20/2025	33,908	0	0	33,908	4,160,114	1413	2,889	0	0	0	30	5	0	0	0	14
7/21/2025	34,089	0	0	34,089	4,182,259	1420	2,904	0	0	0	20	9	0	0	0	16
7/22/2025	33,873	0	0	33,873	4,155,720	1411	2,886	0	0	0	25	6	0	0	0	14
7/23/2025	32,658	0	0	32,658	4,006,729	1361	2,782	0	0	0	27	10	0	0	0	10
7/24/2025	33,406	0	0	33,406	4,098,535	1392	2,846	0	0	0	23	10	0	0	0	10
7/25/2025	35,820	0	0	35,820	4,394,678	1493	3,052	0	0	0	25	8	0	0	0	10
7/26/2025	35,688	0	0	35,688	4,378,500	1487	3,041	0	0	0	10	8	0	0	0	11
7/27/2025	34,448	0	0	34,448	4,226,293	1435	2,935	0	0	0	30	5	0	0	0	10
7/28/2025	35,170	0	0	35,170	4,314,910	1465	2,996	0	0	0	20	12	0	0	0	10
7/29/2025	34,410	0	0	34,410	4,221,697	1434	2,932	0	0	0	20	7	0	0	0	10
7/30/2025	34,477	0	0	34,477	4,229,822	1437	2,937	0	0	0	30	10	0	0	0	10
7/31/2025	33,903	0	0	33,903	4,159,445	1413	2,889	0	0	0	25	10	0	0	0	10
Total	943,146	0	0	943,146	115,711,642	39,298	80,355	0	0	0	745	250	3	0	0	315
Minimum	20,255	0	0	20,255	2,484,991	844	1,726	0	0	0	10	5	0	0	0	5
Average	30,424	0	0	30,424	3,732,634	1,268	2,592	0	0	0	24	8	0	0	0	10
Maximum	35,820	0	0	35,820	4,394,678	1,493	3,052	0	0	0	40	12	1	0	0	16



# 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		
7/1/2025	0	0	0	0	0	0	0	396	397	0	86
7/2/2025	0	0	0	0	0	0	0	395	395	0	86
7/3/2025	0	0	0	0	0	0	0	395	395	0	74
7/4/2025	0	0	0	0	0	0	0	393	395	0	85
7/5/2025	0	0	0	0	0	0	0	395	395	0	81
7/6/2025	0	0	0	0	0	0	0	388	395	0	74
7/7/2025	0	0	0	0	0	0	0	391	392	0	82
7/8/2025	0	0	0	0	0	0	0	390	390	0	83
7/9/2025	0	0	0	0	0	0	0	390	390	0	91
7/10/2025	0	0	0	0	0	0	0	390	390	0	85
7/11/2025	0	0	0	0	0	0	0	390	390	0	88
7/12/2025	0	0	0	0	0	0	0	373	390	0	84
7/13/2025	0	0	0	0	0	0	0	388	390	0	80
7/14/2025	0	0	0	0	0	0	0	393	395	0	83
7/15/2025	0	0	0	0	0	0	0	390	390	0	90
7/16/2025	0	0	0	0	0	0	0	390	390	0	86
7/17/2025	0	0	0	0	0	0	0	390	390	0	90
7/18/2025	0	0	0	0	0	0	0	390	390	0	89
7/19/2025	0	0	0	0	0	0	0	393	395	0	89
7/20/2025	0	0	0	0	0	0	0	390	390	0	89
7/21/2025	0	0	0	0	0	0	0	393	395	0	89
7/22/2025	0	0	0	0	0	0	0	389	390	0	89
7/23/2025	0	0	0	0	0	0	0	390	390	0	88
7/24/2025	0	0	0	0	0	0	0	390	390	0	89
7/25/2025	0	0	0	0	0	0	0	395	400	0	88
7/26/2025	0	0	0	0	0	0	0	395	400	0	86
7/27/2025	0	0	0	0	0	0	0	395	400	0	86
7/28/2025	0	0	0	0	0	0	0	393	395	0	86
7/29/2025	0	0	0	0	0	0	0	395	400	0	86
7/30/2025	0	0	0	0	0	0	0	395	400	0	86
7/31/2025	0	0	0	0	0	0	0	400	400	0	94
Total	0	0	0	0	0						
Minimum	0	0	0	0	0	0	0	373	390	0	74
Average	0	0	0	0	0	0	0	391	394	0	86
Maximum	0	0	0	0	0	0	0	400	400	0	94

# 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		
7/1/2025	0	0	0	0	0	0	0	910	910	825	75
7/2/2025	0	0	0	0	0	0	0	909	910	825	73
7/3/2025	0	0	0	0	0	0	0	914	920	833	66
7/4/2025	0	0	0	0	0	0	0	914	920	825	69
7/5/2025	0	0	0	0	0	0	0	900	900	818	68
7/6/2025	0	0	0	0	0	0	0	895	900	810	66
7/7/2025	0	0	0	0	0	0	0	890	890	795	70
7/8/2025	0	0	0	0	0	0	0	890	890	795	72
7/9/2025	0	0	0	0	0	0	0	890	890	795	70
7/10/2025	0	0	0	0	0	0	0	893	895	795	72
7/11/2025	0	0	0	0	0	0	0	893	895	795	64
7/12/2025	0	0	0	0	0	0	0	888	890	795	62
7/13/2025	0	0	0	0	0	0	0	891	892	795	57
7/14/2025	0	0	0	0	0	0	0	886	890	788	58
7/15/2025	0	0	0	0	0	0	0	890	890	780	73
7/16/2025	0	0	0	0	0	0	0	888	890	780	74
7/17/2025	0	0	0	0	0	0	0	884	885	780	75
7/18/2025	0	0	0	0	0	0	0	880	880	780	78
7/19/2025	0	0	0	0	0	0	0	880	880	780	74
7/20/2025	0	0	0	0	0	0	0	886	890	780	77
7/21/2025	0	0	0	0	0	0	0	881	882	780	75
7/22/2025	0	0	0	0	0	0	0	877	878	780	79
7/23/2025	0	0	0	0	0	0	0	878	880	780	79
7/24/2025	0	0	0	0	0	0	0	894	895	795	79
7/25/2025	0	0	0	0	0	0	0	883	885	795	75
7/26/2025	0	0	0	0	0	0	0	880	882	795	75
7/27/2025	0	0	0	0	0	0	0	881	882	788	75
7/28/2025	0	0	0	0	0	0	0	881	882	788	75
7/29/2025	0	0	0	0	0	0	0	871	882	788	74
7/30/2025	0	0	0	0	0	0	0	871	882	788	74
7/31/2025	0	0	0	0	0	0	0	860	860	765	68
Total	0	0	0	0	0						
Minimum	0	0	0	0	0	0	0	860	860	765	57
Average	0	0	0	0	0	0	0	888	890	794	71
Maximum	0	0	0	0	0	0	0	914	920	833	79



# 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		
7/1/2025	24	8707	0	8707	1076096	346	747	460	460	1358	161
7/2/2025	24	8570	0	8570	1059183	341	736	458	460	1463	160
7/3/2025	24	8889	0	8889	1098699	353	763	460	460	1425	163
7/4/2025	24	8144	0	8144	1006528	324	699	408	465	1418	161
7/5/2025	24	3334	0	3334	412096	132	286	170	200	1275	185
7/6/2025	24	3459	0	3459	427573	137	297	207	212	1268	185
7/7/2025	24	3174	0	3174	392260	126	272	212	213	1223	185
7/8/2025	24	3210	0	3210	396693	128	275	280	311	1230	194
7/9/2025	24	2563	0	2563	316755	102	220	215	231	1148	184
7/10/2025	24	2763	0	2763	341528	110	237	225	240	1110	180
7/11/2025	24	2670	0	2670	330037	106	229	191	203	1193	178
7/12/2025	24	2500	0	2500	308971	99	215	210	250	1170	177
7/13/2025	24	2278	0	2278	281569	91	196	174	222	1110	180
7/14/2025	24	2150	0	2150	265785	85	185	155	170	1080	180
7/15/2025	24	2367	0	2367	292559	94	203	235	290	1253	186
7/16/2025	24	2599	0	2599	321254	103	223	315	335	1260	190
7/17/2025	24	2281	0	2281	281880	91	196	223	250	1170	183
7/18/2025	24	2403	0	2403	297053	96	206	312	324	1185	187
7/19/2025	24	2447	0	2447	302479	97	210	305	310	1305	185
7/20/2025	24	2561	0	2561	316480	102	220	310	310	1388	185
7/21/2025	24	2427	0	2427	300028	96	208	330	330	1350	185
7/22/2025	24	1944	0	1944	240248	77	167	348	350	1320	188
7/23/2025	24	1062	0	1062	131236	42	91	373	375	1298	193
7/24/2025	24	1457	0	1457	180141	58	125	360	360	1470	191
7/25/2025	24	2781	0	2781	343739	111	239	385	390	1440	193
7/26/2025	24	2756	0	2756	340686	110	237	395	399	1403	193
7/27/2025	24	2269	0	2269	280442	90	195	400	400	1365	194
7/28/2025	24	2773	0	2773	342711	110	238	395	400	1328	195
7/29/2025	24	2263	0	2263	279668	90	194	400	400	1283	192
7/30/2025	24	2543	0	2543	314320	101	218	398	400	1455	192
7/31/2025	24	2556	0	2556	315940	102	219	382	393	1403	189
Total	744	101901	0	101901	12594637						
Minimum	24	1062	0	1062	131236	42	91	155	170	1080	160
Average	24	3287	0	3287	406279	131	282	312	326	1295	183
Maximum	24	8889	0	8889	1098699	353	763	460	465	1470	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		
7/1/2025	0	0	0	0	0	0	0	163	164	165	81
7/2/2025	0	0	0	0	0	0	0	163	164	165	78
7/3/2025	0	0	0	0	0	0	0	160	160	165	75
7/4/2025	0	0	0	0	0	0	0	160	160	165	81
7/5/2025	0	0	0	0	0	0	0	161	162	165	80
7/6/2025	0	0	0	0	0	0	0	162	163	165	73
7/7/2025	0	0	0	0	0	0	0	162	162	165	75
7/8/2025	0	0	0	0	0	0	0	162	162	165	72
7/9/2025	0	0	0	0	0	0	0	162	162	165	83
7/10/2025	0	0	0	0	0	0	0	161	162	165	79
7/11/2025	0	0	0	0	0	0	0	160	160	165	79
7/12/2025	0	0	0	0	0	0	0	160	160	165	78
7/13/2025	0	0	0	0	0	0	0	160	160	165	74
7/14/2025	0	0	0	0	0	0	0	160	160	165	79
7/15/2025	0	0	0	0	0	0	0	160	160	165	81
7/16/2025	0	0	0	0	0	0	0	161	161	165	82
7/17/2025	0	0	0	0	0	0	0	161	162	165	80
7/18/2025	0	0	0	0	0	0	0	160	160	165	81
7/19/2025	0	0	0	0	0	0	0	160	160	165	81
7/20/2025	0	0	0	0	0	0	0	159	160	165	71
7/21/2025	0	0	0	0	0	0	0	165	170	165	74
7/22/2025	0	0	0	0	0	0	0	165	170	165	79
7/23/2025	0	0	0	0	0	0	0	161	161	165	85
7/24/2025	0	0	0	0	0	0	0	160	160	165	83
7/25/2025	0	0	0	0	0	0	0	160	160	150	90
7/26/2025	0	0	0	0	0	0	0	158	158	150	87
7/27/2025	0	0	0	0	0	0	0	157	158	150	87
7/28/2025	0	0	0	0	0	0	0	157	158	150	90
7/29/2025	0	0	0	0	0	0	0	157	158	150	85
7/30/2025	0	0	0	0	0	0	0	157	158	150	89
7/31/2025	0	0	0	0	0	0	0	155	155	150	86
Total	0	0	0	0	0	0	0				
Minimum	0	0	0	0	0	0	0	155	155	150	71
Average	0	0	0	0	0	0	0	160	161	162	80
Maximum	0	0	0	0	0	0	0	165	170	165	90



# 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		
7/1/2025	24	11441	0	11441	1414013	455	982	461	461	1455	158
7/2/2025	24	11536	0	11536	1425808	458	990	455	460	1455	158
7/3/2025	24	12538	0	12538	1549606	498	1076	460	460	1455	155
7/4/2025	24	12538	0	12538	1549606	498	1076	395	459	1425	152
7/5/2025	24	3070	0	3070	379496	122	264	193	205	1335	168
7/6/2025	24	2753	0	2753	340212	109	236	210	210	1350	169
7/7/2025	24	3051	0	3051	377071	121	262	209	210	1350	178
7/8/2025	24	3210	0	3210	396693	128	275	272	312	1403	186
7/9/2025	24	3968	0	3968	490412	158	341	206	222	1350	174
7/10/2025	24	4064	0	4064	502308	161	349	224	237	1358	170
7/11/2025	24	387	0	387	47889	15	33	188	200	1328	165
7/12/2025	24	3850	0	3850	475820	153	330	204	246	1343	165
7/13/2025	24	3884	0	3884	480088	154	333	210	220	1343	165
7/14/2025	24	3765	0	3765	465305	150	323	212	235	1358	166
7/15/2025	24	4000	0	4000	494429	159	343	270	290	1380	177
7/16/2025	24	4008	0	4008	495385	159	344	313	330	1410	181
7/17/2025	24	3586	0	3586	443160	142	308	250	250	1350	176
7/18/2025	24	3912	0	3912	483477	155	336	310	320	1388	171
7/19/2025	24	3981	0	3981	492098	158	342	300	300	1380	171
7/20/2025	24	3964	0	3964	489938	158	340	310	315	1388	170
7/21/2025	24	4013	0	4013	496030	159	344	320	320	1395	173
7/22/2025	24	3991	0	3991	493288	159	343	337	339	1403	175
7/23/2025	24	3094	0	3094	382381	123	266	367	370	1425	187
7/24/2025	24	2582	0	2582	319094	103	222	360	360	1410	184
7/25/2025	24	3546	0	3546	438242	141	304	377	380	1425	179
7/26/2025	24	3530	0	3530	436258	140	303	388	390	1433	178
7/27/2025	24	3630	0	3630	448699	144	312	390	395	1433	175
7/28/2025	24	3629	0	3629	448533	144	311	390	390	1440	178
7/29/2025	24	3592	0	3592	443970	143	308	386	390	1433	177
7/30/2025	24	3562	0	3562	440266	142	306	384	388	1425	177
7/31/2025	24	3483	0	3483	430437	138	299	368	380	1418	181
Total	744	142156	0	142156	17570012						
Minimum	24	387	0	387	47889	15	33	188	200	1328	152
Average	24	4586	0	4586	566775	182	394	313	324	1395	172
Maximum	24	12538	0	12538	1549606	498	1076	461	461	1455	187



# PUNA GEOTHERMAL VENTURE

## KS-21 INJECTION WELL DATA QUANTITIES OF FLUID INJECTED FOR TESTING

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		
7/1/2025	0	0	0	0	0	0	0	0	0	825	73
7/2/2025	0	0	0	0	0	0	0	0	0	825	71
7/3/2025	0	0	0	0	0	0	0	0	0	825	69
7/4/2025	0	0	0	0	0	0	0	0	0	855	112
7/5/2025	24	19109	0	19109	2361864	759	1640	205	205	1058	176
7/6/2025	24	21529	0	21529	2660895	855	1848	205	205	1065	176
7/7/2025	24	21320	0	21320	2635041	847	1830	207	210	1043	181
7/8/2025	24	24059	0	24059	2973658	956	2065	270	307	1058	192
7/9/2025	24	22022	0	22022	2721787	875	1890	195	200	1050	177
7/10/2025	24	23441	0	23441	2897191	931	2012	220	235	1028	175
7/11/2025	24	22861	0	22861	2825539	908	1962	187	201	1185	173
7/12/2025	24	24019	0	24019	2968722	954	2062	204	245	1080	168
7/13/2025	24	24412	0	24412	3017292	970	2095	222	230	1058	170
7/14/2025	24	22707	0	22707	2806477	902	1949	205	230	1035	174
7/15/2025	24	24392	0	24392	3014773	969	2094	265	290	1050	185
7/16/2025	24	25051	0	25051	3096169	995	2150	308	325	1163	190
7/17/2025	24	25293	0	25293	3126092	1005	2171	240	245	1110	181
7/18/2025	24	26288	0	26288	3249132	1045	2256	303	310	1110	179
7/19/2025	24	26833	0	26833	3316434	1066	2303	297	298	1095	181
7/20/2025	24	27134	0	27134	3353696	1078	2329	308	310	1110	175
7/21/2025	24	27397	0	27397	3386201	1089	2352	316	321	1125	178
7/22/2025	24	27688	0	27688	3422184	1100	2377	339	340	1118	180
7/23/2025	24	28262	0	28262	3493112	1123	2426	364	365	1140	188
7/24/2025	24	29121	0	29121	3599300	1157	2500	353	355	1185	189
7/25/2025	24	29230	0	29230	3612697	1161	2509	379	380	1170	185
7/26/2025	24	29140	0	29140	3601556	1158	2501	389	390	1200	188
7/27/2025	24	28295	0	28295	3497152	1124	2429	389	389	1178	182
7/28/2025	24	28509	0	28509	3523666	1133	2447	389	390	1163	185
7/29/2025	24	28302	0	28302	3498059	1125	2429	389	390	1140	183
7/30/2025	24	28118	0	28118	3475236	1117	2413	387	390	1125	183
7/31/2025	24	27615	0	27615	3413068	1097	2370	368	380	1095	185
Total	648	692146	0	692146	85546993						
Minimum	0	0	0	0	0	0	0	0	0	825	69
Average	21	22327	0	22327	2759580	887	1916	255	262	1073	168
Maximum	24	29230	0	29230	3612697	1161	2509	389	390	1200	192