

February 21, 2024

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

SUBJECT: PRODUCTION AND INJECTION REPORTS – JANUARY 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 January 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		
1/1/2024	12,112	23,087	35,199	65.6	34.4	505	962	1467	27.1	7.0	34.1	473	24
1/2/2024	11,967	23,556	35,523	66.3	33.7	499	982	1480	26.7	6.7	33.4	471	24
1/3/2024	11,258	23,250	34,508	67.4	32.6	469	969	1438	24.9	7.2	32.1	476	24
1/4/2024	12,033	22,811	34,844	65.5	34.5	501	950	1452	26.9	7.2	34.1	465	24
1/5/2024	10,478	22,456	32,934	68.2	31.8	437	936	1372	23.0	7.0	30.0	480	24
1/6/2024	11,403	22,533	33,936	66.4	33.6	475	939	1414	25.3	7.2	32.5	460	24
1/7/2024	11,886	24,209	36,095	67.1	32.9	495	1009	1504	26.5	7.5	34.0	461	24
1/8/2024	11,720	23,948	35,669	67.1	32.9	488	998	1486	26.1	7.1	33.2	461	24
1/9/2024	11,753	23,564	35,316	66.7	33.3	490	982	1472	26.2	7.2	33.3	463	24
1/10/2024	11,737	23,302	35,039	66.5	33.5	489	971	1460	26.1	7.0	33.1	463	24
1/11/2024	11,678	23,302	34,981	66.6	33.4	487	971	1458	26.0	7.0	33.0	462	24
1/12/2024	11,720	23,234	34,954	66.5	33.5	488	968	1456	26.1	6.7	32.8	461	24
1/13/2024	11,942	23,119	35,061	65.9	34.1	498	963	1461	26.6	7.3	34.0	460	24
1/14/2024	11,850	23,298	35,148	66.3	33.7	494	971	1465	26.4	7.0	33.4	459	24
1/15/2024	11,942	23,755	35,696	66.5	33.5	498	990	1487	26.6	7.1	33.8	461	24
1/16/2024	11,472	23,823	35,296	67.5	32.5	478	993	1471	25.5	6.8	32.3	462	24
1/17/2024	11,727	23,370	35,097	66.6	33.4	489	974	1462	26.1	7.0	33.1	464	24
1/18/2024	11,879	23,130	35,009	66.1	33.9	495	964	1459	26.5	7.1	33.6	464	24
1/19/2024	11,479	18,151	29,630	61.3	38.7	478	756	1235	25.5	6.8	32.3	461	24
1/20/2024	11,017	18,173	29,190	62.3	37.7	459	757	1216	24.4	6.8	31.2	466	24
1/21/2024	11,486	23,723	35,209	67.4	32.6	479	988	1467	25.5	7.0	32.5	459	24
1/22/2024	10,907	23,943	34,850	68.7	31.3	454	998	1452	24.1	7.1	30.1	463	24
1/23/2024	10,490	23,106	33,596	68.8	31.2	437	963	1400	23.1	7.1	29.7	464	24
1/24/2024	10,490	23,106	33,596	68.8	31.2	437	963	1400	22.6	7.1	29.7	468	24
1/25/2024	10,291	23,972	34,263	70.0	30.0	429	999	1428	22.0	7.0	28.9	467	24
1/26/2024	10,045	23,769	33,814	70.3	29.7	419	990	1409	22.7	7.0	29.7	465	24
1/27/2024	10,335	24,081	34,416	70.0	30.0	431	1003	1434	22.6	6.9	29.5	465	24
1/28/2024	10,288	24,181	34,468	70.2	29.8	429	1008	1436	22.6	6.9	29.5	466	24
1/29/2024	10,306	24,089	34,395	70.0	30.0	429	1004	1433	21.6	6.9	28.5	468	24
1/30/2024	9,888	23,980	33,868	70.8	29.2	412	999	1411	19.5	6.9	26.5	472	24
1/31/2024	9,069	23,176	32,246	71.9	28.1	378	966	1344	20.6	7.2	27.8	469	24
Mo. Totals/Avg	346,649	717,198	1,063,847	67.4	32.6	466	964	1430	24.7	7.0	31.7	465	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)
1/1/2024			0	73	293	428	598	485	742	508	535	473
1/2/2024			0	83	294	416	567	477	778	518	532	476
1/3/2024			0	75	285	415	628	484	851	529	540	475
1/4/2024			0	74	288	416	605	482	607	489	540	476
1/5/2024			0	73	288	415	675	492	963	541	533	475
1/6/2024			0	72	293	415	560	474	560	477	530	476
1/7/2024			0	71	293	415	530	473	550	481	530	476
1/8/2024			0	71	295	416	568	472	555	482	530	476
1/9/2024			0	70	293	416	588	481	556	482	528	475
1/10/2024			0	72	297	415	577	482	556	480	522	475
1/11/2024			0	75	294	415	600	477	557	480	533	475
1/12/2024			0	77	290	414	600	476	558	480	535	475
1/13/2024			0	68	290	414	600	471	557	480	530	474
1/14/2024			0	68	280	413	575	473	556	476	525	474
1/15/2024			0	66	293	415	570	477	589	482	513	472
1/16/2024			0	66	293	415	575	479	576	483	513	472
1/17/2024			0	66	293	415	610	484	575	484	520	472
1/18/2024			0	75	293	415	608	484	591	486	508	472
1/19/2024			0	75	288	415	583	479	564	481	515	471
1/20/2024			0	75	328	425	575	473	651	496	510	471
1/21/2024			0	76	295	416	545	471	547	481	505	471
1/22/2024			0	78	298	416	530	467	659	499	508	471
1/23/2024			0	77	295	416	548	472	666	498	508	471
1/24/2024			0	79	293	416	523	468	760	516	508	472
1/25/2024			0	76	295	415	523	467	742	514	508	472
1/26/2024			0	74	296	415	532	469	698	504	512	472
1/27/2024			0	73	294	416	529	469	692	505	513	471
1/28/2024			0	77	298	416	530	469	680	506	513	472
1/29/2024			0	77	293	416	540	471	765	514	520	473
1/30/2024			0	80	295	416	558	468	919	533	515	472
1/30/2024			0	72	298	416	515	468	777	519	518	473
Monthly Average			0	73	294	416	570	475	658	497	521	473

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	Cat-Sulf. GAL	G442 GAL	Bio- spersse GAL	NaOH GAL	Royal Purple GAL	98% Acid GAL
				KLB	GAL	KPH	GPM									
1/1/2024	35,199	0	0	35,199	4,350,508	1467	3,021	0	0	0	0	7	0	0	0	26
1/2/2024	35,523	0	0	35,523	4,390,522	1480	3,049	0	0	0	0	8	0	0	0	26
1/3/2024	34,508	0	0	34,508	4,265,117	1438	2,962	0	0	0	0	6	0	0	0	26
1/4/2024	34,844	0	0	34,844	4,306,609	1452	2,991	0	0	0	0	9	0	0	0	25
1/5/2024	32,934	0	0	32,934	4,070,562	1372	2,827	0	0	0	0	10	0	0	0	25
1/6/2024	33,936	0	0	33,936	4,194,395	1414	2,913	0	0	0	0	10	0	0	0	25
1/7/2024	36,095	0	0	36,095	4,461,262	1504	3,098	0	0	0	0	5	0	0	0	25
1/8/2024	35,669	0	0	35,669	4,408,536	1486	3,061	0	0	0	0	5	0	0	0	25
1/9/2024	35,316	0	0	35,316	4,364,962	1472	3,031	0	0	0	0	10	0	0	0	23
1/10/2024	35,039	0	0	35,039	4,330,731	1460	3,007	0	0	0	0	5	0	0	0	25
1/11/2024	34,981	0	0	34,981	4,323,493	1458	3,002	0	0	0	0	10	0	0	0	22
1/12/2024	34,954	0	0	34,954	4,320,208	1456	3,000	0	0	0	0	8	0	0	0	24
1/13/2024	35,061	0	0	35,061	4,333,416	1461	3,009	0	0	0	0	7	0	0	0	24
1/14/2024	35,148	0	0	35,148	4,344,210	1465	3,017	0	0	0	0	5	0	0	0	25
1/15/2024	35,696	0	0	35,696	4,411,966	1487	3,064	0	0	0	0	10	0	0	0	24
1/16/2024	35,296	0	0	35,296	4,362,442	1471	3,029	0	0	0	0	5	0	0	0	24
1/17/2024	35,097	0	0	35,097	4,337,872	1462	3,012	0	0	0	0	5	0	0	0	24
1/18/2024	35,009	0	0	35,009	4,326,951	1459	3,005	0	0	0	0	10	0	0	0	23
1/19/2024	29,630	0	0	29,630	3,662,157	1235	2,543	0	0	0	0	10	0	0	0	26
1/20/2024	29,190	0	0	29,190	3,607,751	1216	2,505	0	0	0	0	15	0	0	0	26
1/21/2024	35,209	0	0	35,209	4,351,715	1467	3,022	0	0	0	0	15	0	0	0	28
1/22/2024	34,850	0	0	34,850	4,307,401	1452	2,991	0	0	0	0	20	0	0	0	27
1/23/2024	33,596	0	0	33,596	4,152,375	1400	2,884	0	0	0	0	15	0	0	0	25
1/24/2024	33,596	0	0	33,596	4,234,768	1400	2,941	0	0	0	0	20	0	0	0	26
1/25/2024	34,263	0	0	34,263	4,179,250	1428	2,902	0	0	0	0	20	0	0	0	25
1/26/2024	33,814	0	0	33,814	4,253,709	1409	2,954	0	0	0	0	20	0	0	0	24
1/27/2024	34,416	0	0	34,416	4,260,164	1434	2,958	0	0	0	0	15	0	0	0	25
1/28/2024	34,468	0	0	34,468	4,251,155	1436	2,952	0	0	0	0	15	0	0	0	25
1/29/2024	34,395	0	0	34,395	4,185,976	1433	2,907	0	0	0	0	15	0	0	0	25
1/30/2024	33,868	0	0	33,868	3,985,482	1411	2,768	0	0	0	0	15	0	0	0	24
1/31/2024	32,246	0	0	32,246	4,138,997	1344	2,874	0	0	0	0	15	0	0	0	25
Total	1,063,847	0	0	1,063,847	131,474,662	44,327	91,302	0	0	0	0	345	0	0	0	772
Minimum	29,190	0	0	29,190	3,607,751	1,216	2,505	0	0	0	0	5	0	0	0	22
Average	34,318	0	0	34,318	4,241,118	1,430	2,945	0	0	0	0	11	0	0	0	25
Maximum	36,095	0	0	36,095	4,461,262	1,504	3,098	0	0	0	0	20	0	0	0	28

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		
1/1/2024	0	0	0	0	0	0	0	168	171	858	70
1/2/2024	0	0	0	0	0	0	0	174	174	848	81
1/3/2024	0	0	0	0	0	0	0	173	174	836	69
1/4/2024	0	0	0	0	0	0	0	175	175	826	63
1/5/2024	0	0	0	0	0	0	0	175	175	819	62
1/6/2024	0	0	0	0	0	0	0	175	176	810	61
1/7/2024	0	0	0	0	0	0	0	179	179	806	62
1/8/2024	0	0	0	0	0	0	0	179	179	799	65
1/9/2024	0	0	0	0	0	0	0	180	180	792	65
1/10/2024	0	0	0	0	0	0	0	180	180	785	71
1/11/2024	0	0	0	0	0	0	0	181	181	780	72
1/12/2024	0	0	0	0	0	0	0	0	0	771	74
1/13/2024	0	0	0	0	0	0	0	2	4	764	61
1/14/2024	0	0	0	0	0	0	0	3	6	755	68
1/15/2024	0	0	0	0	0	0	0	4	7	748	70
1/16/2024	0	0	0	0	0	0	0	3	6	740	70
1/17/2024	0	0	0	0	0	0	0	48	96	733	75
1/18/2024	0	0	0	0	0	0	0	47	93	727	68
1/19/2024	0	0	0	0	0	0	0	0	0	719	65
1/20/2024	0	0	0	0	0	0	0	0	0	712	60
1/21/2024	0	0	0	0	0	0	0	0	0	705	62
1/22/2024	0	0	0	0	0	0	0	0	0	698	70
1/23/2024	0	0	0	0	0	0	0	4	4	691	65
1/24/2024	0	0	0	0	0	0	0	4	4	684	76
1/25/2024	0	0	0	0	0	0	0	5	5	677	69
1/26/2024	0	0	0	0	0	0	0	5	5	670	70
1/27/2024	0	0	0	0	0	0	0	18	30	663	69
1/28/2024	0	0	0	0	0	0	0	6	6	656	73
1/29/2024	0	0	0	0	0	0	0	7	7	649	70
1/30/2024	0	0	0	0	0	0	0	6	6	639	87
1/31/2024	6	30	0	30	3718	1	3	57	108	631	84
Total	6	30	0	30	3718						
Minimum	0	0	0	0	0	0	0	0	0	631	60
Average	0	1	0	1	120	0	0	69	75	741	69
Maximum	6	30	0	30	3718	1	3	181	181	858	87

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		
1/1/2024	0	0	0	0	0	0	0	16	22	195	70
1/2/2024	0	0	0	0	0	0	0	22	22	190	79
1/3/2024	0	0	0	0	0	0	0	22	22	184	73
1/4/2024	0	0	0	0	0	0	0	24	24	184	74
1/5/2024	0	0	0	0	0	0	0	23	23	179	73
1/6/2024	0	0	0	0	0	0	0	26	28	183	76
1/7/2024	0	0	0	0	0	0	0	30	30	186	76
1/8/2024	0	0	0	0	0	0	0	30	30	184	75
1/9/2024	0	0	0	0	0	0	0	31	31	181	74
1/10/2024	0	0	0	0	0	0	0	32	32	178	77
1/11/2024	0	0	0	0	0	0	0	34	34	175	77
1/12/2024	0	0	0	0	0	0	0	36	36	172	76
1/13/2024	0	0	0	0	0	0	0	37	37	171	67
1/14/2024	0	0	0	0	0	0	0	38	39	168	72
1/15/2024	0	0	0	0	0	0	0	41	41	166	77
1/16/2024	0	0	0	0	0	0	0	43	43	163	70
1/17/2024	0	0	0	0	0	0	0	44	44	162	63
1/18/2024	0	0	0	0	0	0	0	45	45	159	82
1/19/2024	0	0	0	0	0	0	0	46	46	155	74
1/20/2024	0	0	0	0	0	0	0	47	48	154	74
1/21/2024	0	0	0	0	0	0	0	50	50	154	77
1/22/2024	0	0	0	0	0	0	0	51	51	151	81
1/23/2024	0	0	0	0	0	0	0	52	52	149	80
1/24/2024	0	0	0	0	0	0	0	53	53	147	80
1/25/2024	0	0	0	0	0	0	0	54	54	145	82
1/26/2024	0	0	0	0	0	0	0	55	55	143	62
1/27/2024	0	0	0	0	0	0	0	51	56	142	75
1/28/2024	0	0	0	0	0	0	0	58	58	140	83
1/29/2024	0	0	0	0	0	0	0	58	58	138	84
1/30/2024	0	0	0	0	0	0	0	57	57	132	88
1/31/2024	0	0	0	0	0	0	0	58	59	132	78
Total	0	0	0	0	0	0	0				
Minimum	0	0	0	0	0	0	0	16	22	132	62
Average	0	0	0	0	0	0	0	41	41	163	76
Maximum	0	0	0	0	0	0	0	58	59	195	88

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		
1/1/2024	0	0	0	0	0	0	0	90	90	799	75
1/2/2024	0	0	0	0	0	0	0	92	99	774	83
1/3/2024	0	0	0	0	0	0	0	112	114	746	80
1/4/2024	0	0	0	0	0	0	0	128	130	722	79
1/5/2024	0	0	0	0	0	0	0	130	132	702	73
1/6/2024	0	0	0	0	0	0	0	107	108	680	73
1/7/2024	0	0	0	0	0	0	0	105	106	663	75
1/8/2024	0	0	0	0	0	0	0	105	106	645	75
1/9/2024	0	0	0	0	0	0	0	104	104	629	75
1/10/2024	0	0	0	0	0	0	0	107	107	611	78
1/11/2024	0	0	0	0	0	0	0	110	110	595	77
1/12/2024	0	0	0	0	0	0	0	112	112	576	78
1/13/2024	0	0	0	0	0	0	0	113	113	562	70
1/14/2024	0	0	0	0	0	0	0	116	118	545	70
1/15/2024	0	0	0	0	0	0	0	101	102	531	75
1/16/2024	0	0	0	0	0	0	0	102	104	516	75
1/17/2024	0	0	0	0	0	0	0	104	104	506	75
1/18/2024	0	0	0	0	0	0	0	105	105	497	75
1/19/2024	0	0	0	0	0	0	0	104	106	486	75
1/20/2024	0	0	0	0	0	0	0	100	100	477	73
1/21/2024	0	0	0	0	0	0	0	88	89	468	75
1/22/2024	0	0	0	0	0	0	0	90	92	459	75
1/23/2024	0	0	0	0	0	0	0	96	96	450	78
1/24/2024	0	0	0	0	0	0	0	99	99	441	75
1/25/2024	0	0	0	0	0	0	0	102	102	432	75
1/26/2024	0	0	0	0	0	0	0	105	105	424	75
1/27/2024	0	0	0	0	0	0	0	107	108	418	78
1/28/2024	0	0	0	0	0	0	0	110	110	408	75
1/29/2024	0	0	0	0	0	0	0	112	112	400	78
1/30/2024	0	0	0	0	0	0	0	97	101	389	78
1/31/2024	0	0	0	0	0	0	0	94	94	382	70
Total	0	0	0	0	0	0	0				
Minimum	0	0	0	0	0	0	0	88	89	382	70
Average	0	0	0	0	0	0	0	104	106	546	75
Maximum	0	0	0	0	0	0	0	130	132	799	83

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		
1/1/2024	0	0	0	0	0	0	0	7	10	430	103
1/2/2024	0	0	0	0	0	0	0	4	4	427	115
1/3/2024	0	0	0	0	0	0	0	5	5	428	113
1/4/2024	0	0	0	0	0	0	0	5	6	433	119
1/5/2024	0	0	0	0	0	0	0	7	7	427	91
1/6/2024	0	0	0	0	0	0	0	7	8	424	90
1/7/2024	0	0	0	0	0	0	0	8	10	420	85
1/8/2024	0	0	0	0	0	0	0	8	8	415	85
1/9/2024	0	0	0	0	0	0	0	9	9	413	88
1/10/2024	0	0	0	0	0	0	0	10	10	412	88
1/11/2024	0	0	0	0	0	0	0	9	10	412	90
1/12/2024	0	0	0	0	0	0	0	12	13	409	93
1/13/2024	0	0	0	0	0	0	0	16	16	411	85
1/14/2024	0	0	0	0	0	0	0	11	11	407	85
1/15/2024	0	0	0	0	0	0	0	17	19	409	60
1/16/2024	0	0	0	0	0	0	0	18	20	405	65
1/17/2024	0	0	0	0	0	0	0	22	23	401	65
1/18/2024	0	0	0	0	0	0	0	22	22	403	88
1/19/2024	0	0	0	0	0	0	0	21	25	402	86
1/20/2024	0	0	0	0	0	0	0	8	16	400	86
1/21/2024	0	0	0	0	0	0	0	20	20	403	85
1/22/2024	0	0	0	0	0	0	0	21	21	400	88
1/23/2024	0	0	0	0	0	0	0	22	23	400	90
1/24/2024	0	0	0	0	0	0	0	26	26	396	88
1/25/2024	0	0	0	0	0	0	0	25	25	398	90
1/26/2024	0	0	0	0	0	0	0	26	28	396	85
1/27/2024	0	0	0	0	0	0	0	27	28	397	80
1/28/2024	0	0	0	0	0	0	0	34	37	394	83
1/29/2024	0	0	0	0	0	0	0	29	29	393	93
1/30/2024	0	0	0	0	0	0	0	27	28	393	103
1/31/2024	0	0	0	0	0	0	0	31	32	393	95
Total	0	0	0	0	0	0	0				
Minimum	0	0	0	0	0	0	0	4	4	393	60
Average	0	0	0	0	0	0	0	16	18	408	89
Maximum	0	0	0	0	0	0	0	34	37	433	119

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		
1/1/2024	24	5086	0	5086	628553	202	436	32	32	1050	168
1/2/2024	24	2668	0	2668	329722	106	229	25	25	957	174
1/3/2024	24	1397	0	1397	172637	56	120	28	28	951	165
1/4/2024	24	2373	0	2373	293329	94	204	0	0	986	174
1/5/2024	24	1865	0	1865	230502	74	160	0	0	959	169
1/6/2024	24	4075	0	4075	503675	162	350	36	71	1021	179
1/7/2024	24	5764	0	5764	712448	229	495	73	73	1073	182
1/8/2024	24	5630	0	5630	695858	224	483	73	73	1075	183
1/9/2024	24	5493	0	5493	678887	218	471	64	64	1067	177
1/10/2024	24	5411	0	5411	668742	215	464	64	66	1068	182
1/11/2024	24	5370	0	5370	663768	213	461	65	69	1069	176
1/12/2024	24	5297	0	5297	654710	210	455	62	62	1067	175
1/13/2024	24	5279	0	5279	652422	210	453	58	59	1063	172
1/14/2024	24	5286	0	5286	653340	210	454	58	58	1061	172
1/15/2024	24	5349	0	5349	661133	213	459	72	73	1071	181
1/16/2024	24	5280	0	5280	652586	210	453	75	75	1076	183
1/17/2024	24	5253	0	5253	649267	209	451	67	67	1070	175
1/18/2024	24	5218	0	5218	644907	207	448	64	65	1067	180
1/19/2024	24	4992	0	4992	616959	198	428	59	59	1063	173
1/20/2024	24	5051	0	5051	624318	201	434	36	36	1039	168
1/21/2024	24	5269	0	5269	651264	209	452	67	71	1070	176
1/22/2024	24	5218	0	5218	644966	207	448	68	68	1071	182
1/23/2024	24	5080	0	5080	627921	202	436	60	61	1068	185
1/24/2024	24	5096	0	5096	629875	203	437	66	69	1072	186
1/25/2024	24	5005	0	5005	618562	199	430	66	66	1072	185
1/26/2024	24	5072	0	5072	626887	202	435	72	75	1075	181
1/27/2024	24	5072	0	5072	626901	202	435	87	100	1080	181
1/28/2024	24	5045	0	5045	623525	200	433	75	80	1078	187
1/29/2024	24	4810	0	4810	594459	191	413	69	70	1074	188
1/30/2024	24	3972	0	3972	490982	158	341	8	8	1035	187
1/31/2024	24	4392	0	4392	542830	175	377	56	102	1062	185
Total	744	146168	0	146168	18065935						
Minimum	24	1397	0	1397	172637	56	120	0	0	951	165
Average	24	4715	0	4715	582772	187	405	55	59	1052	178
Maximum	24	5764	0	5764	712448	229	495	87	102	1080	188

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		
1/1/2024	24	30114	0	30114	3721955	1197	2585	86	90	924	176
1/2/2024	24	32855	0	32855	4060800	1306	2820	118	123	905	177
1/3/2024	24	33112	0	33112	4092480	1316	2842	109	112	898	178
1/4/2024	24	32471	0	32471	4013280	1290	2787	128	130	915	182
1/5/2024	24	31069	0	31069	3840060	1235	2667	73	83	956	180
1/6/2024	24	29861	0	29861	3690720	1187	2563	105	116	826	181
1/7/2024	24	30331	0	30331	3748814	1205	2603	84	94	952	182
1/8/2024	24	30039	0	30039	3712678	1194	2578	84	95	940	184
1/9/2024	24	29823	0	29823	3686075	1185	2560	85	86	904	179
1/10/2024	24	29629	0	29629	3661989	1177	2543	84	86	996	182
1/11/2024	24	29610	0	29610	3659725	1177	2541	86	89	854	184
1/12/2024	24	29657	0	29657	3665498	1178	2545	84	84	879	180
1/13/2024	24	29782	0	29782	3680994	1183	2556	80	82	913	180
1/14/2024	24	29862	0	29862	3690870	9493	20505	77	78	883	168
1/15/2024	24	30347	0	30347	3750833	1206	2605	96	97	922	181
1/16/2024	24	30016	0	30016	3709856	1193	2576	99	100	1012	183
1/17/2024	24	29844	0	29844	3688605	1186	2562	91	92	949	182
1/18/2024	24	29791	0	29791	3682044	1184	2557	89	91	953	181
1/19/2024	24	24638	0	24638	3045198	979	2115	85	91	987	181
1/20/2024	24	24138	0	24138	2983433	959	2072	58	99	928	175
1/21/2024	24	29940	0	29940	3700451	1190	2570	92	96	989	182
1/22/2024	24	29632	0	29632	3662435	1177	2543	93	99	840	184
1/23/2024	24	28516	0	28516	3524454	1133	2448	85	86	981	185
1/24/2024	24	29167	0	29167	3604893	1159	2503	92	95	855	187
1/25/2024	24	28809	0	28809	3560688	1145	2473	93	93	969	185
1/26/2024	24	29344	0	29344	3626822	1166	2519	100	103	913	186
1/27/2024	24	29396	0	29396	3633263	1168	2523	106	110	925	187
1/28/2024	24	29351	0	29351	3627630	1166	2519	105	110	941	187
1/29/2024	24	29058	0	29058	3591517	1155	2494	98	98	894	189
1/30/2024	24	28273	0	28273	3494500	1123	2427	75	77	960	193
1/31/2024	24	29066	0	29066	3592449	1155	2495	93	102	852	186
Total	744	917540	0	917540	113405009						
Minimum	24	24138	0	24138	2983433	959	2072	58	77	826	168
Average	24	29598	0	29598	3658226	1444	3119	91	96	923	182
Maximum	24	33112	0	33112	4092480	9493	20505	128	130	1012	193