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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Principal facts for a gravity survey of
Breitenbush Known Geothermal Resource
Area, Oregon

By

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This report is preliminary and has not been
edited or reviewed for conformity with U.S.
Geological Survey standards and nomenclature.

UNIVERSITY OF UTAH
RESEARCH INSTITUTE
EARTH SCIENCE LAB.

PRINCIPAL FACTS FOR A GRAVITY SURVEY OF BREITENBUSH KNOWN GEOTHERMAL RESOURCE AREA, OREGON

Explanation of the headings of the columns of the accompanying table of principal facts:

Station identification	Gravity Survey Station Number
Latitude	North latitude in degrees, minutes and hundredths of minutes
Longitude	West longitude in degrees, minutes, and hundredths of minutes
Elev.	Elevation in feet (to convert to meters, multiply by 0.3048)
ST	State
Observed Gravity	Observed gravity in milligals
ST. GRV.	Theoretical gravity computed using the "Geodetic Reference System 1967"
Free-Air	Free-air correction in milligals
Bouguer	Bouguer correction in milligals (includes elevation and curvature correction)
Bouguer Anomaly	Simple Bouguer Anomaly in milligals for an assumed density of 2.67 grams per cc

These data are referenced to the A.C.I.C. station located at the Salem, Oregon Airport. Site is located at the barrier opposite terminal lobby entrance (A.C.I.C. reference number 1307-0).

Reference:

"Geodetic Reference System 1967", International Assn. of Geodesy, Special Publication No. 3.

BFEITERUSH KGHA
BY DON PETERSON
DENSITY: 2.07

GRAVITY SURVEY
1976

STATION IDENTIFICATION	LOCATION		ELEV.	ST.	OBSERVED		CORRECTIONS			BOUGUER ANOMALY	SPEC. FIELD
	LATITUDE	LONGITUDE			GRAVITY	STD. GRV.	TERRAIN	FREE-AIR	BOUGUER		
BRITEN. BB01	44 46,92	-121 57,97	2297,0	OR	980365,80	-980599,32		215,99	-79,20	-96,73	
BRITEN. BB02	44 47,23	-121 58,20	2378,0	OR	980362,60	-980599,78		223,60	-81,98	-95,56	
BRITEN. BB03	44 47,00	-121 57,10	2360,0	OR	980358,30	-980599,44		221,91	-81,36	-100,59	
BRITEN. BB04	44 47,28	-121 56,30	2485,0	OR	980348,57	-980599,86		233,66	-85,66	-103,29	
BRITEN. BB05	44 47,69	-121 54,62	2667,0	OR	980335,77	-980600,48		250,77	-91,92	-105,86	
BRITEN. BB06	44 48,67	-121 52,81	3569,0	OR	980287,68	-980601,96		335,57	-122,90	-101,61	
BRITEN. BB07	44 47,99	-121 50,88	4186,0	OR	980244,39	-980600,93		393,56	-144,06	-107,04	
BRITEN. BB08	44 47,15	-121 49,82	4587,0	OR	980220,19	-980599,66		431,25	-157,81	-106,03	
BRITEN. BB09	44 46,52	-121 49,20	4837,0	OR	980203,56	-980598,71		454,75	-166,37	-106,77	
BRITEN. BB01	44 46,92	-121 57,97	2297,0	OR	980365,80	-980599,32		215,99	-79,20	-96,73	
BRITEN. BB10	44 47,24	-121 58,60	2353,0	OR	980365,09	-980599,80		221,25	-81,12	-93,98	
BRITEN. BB11	44 47,34	-121 58,61	2393,0	OR	980363,33	-980599,95		225,02	-82,50	-94,10	
BRITEN. BB12	44 47,40	-121 58,70	2435,0	OR	980360,38	-980600,04		228,96	-83,94	-94,64	
BRITEN. BB13	44 47,46	-121 58,77	2506,0	OR	980356,27	-980600,13		235,64	-86,38	-94,60	
BRITEN. BB14	44 47,48	-121 58,60	2559,0	OR	980353,99	-980600,16		240,62	-88,21	-93,76	
BRITEN. BB15	44 47,59	-121 58,69	2710,0	OR	980346,76	-980600,33		254,82	-93,40	-92,15	
BRITEN. BB01	44 46,92	-121 57,97	2297,0	OR	980365,80	-980599,32		215,99	-79,20	-96,73	
BRITEN. BB16	44 46,69	-121 59,80	2125,0	OR	980377,35	-980598,97		199,82	-73,28	-95,08	
BRITEN. BB17	44 47,00	-122 1,50	2028,0	OR	980384,34	-980599,44		190,70	-69,94	-94,34	
BRITEN. BB18	44 46,94	-122 3,10	1892,0	OR	980393,13	-980599,35		177,91	-65,26	-93,57	
BRITEN. BB19	44 46,36	-122 4,43	1799,0	OR	980398,14	-980598,47		169,17	-62,06	-93,22	
BRITEN. BB20	44 45,94	-122 6,08	1750,0	OR	980397,36	-980597,84		164,56	-60,37	-96,29	
BRITEN. BB21	44 45,09	-122 7,83	1578,0	OR	980406,74	-980596,56		148,39	-54,44	-95,87	
BRITEN. BB22	44 46,60	-121 59,00	2394,0	OR	980361,18	-980598,83		225,11	-82,53	-95,07	
BRITEN. BB23	44 46,13	-121 58,55	2792,0	OR	980333,82	-980598,13		262,53	-96,22	-98,00	
BRITEN. BB24	44 45,55	-121 58,05	2821,0	OR	980326,70	-980597,25		265,25	-97,21	-102,51	
BRITEN. BB25	44 45,14	-121 57,59	2873,0	OR	980318,41	-980596,63		270,14	-99,00	-107,08	
BRITEN. BB26	44 45,50	-121 58,82	2956,0	OR	980319,33	-980597,18		277,94	-101,85	-101,76	
BRITEN. BB27	44 45,08	-122 1,61	3900,0	OR	980262,67	-980596,54		366,68	-134,26	-101,45	
BRITEN. BB28	44 45,37	-122 0,39	3433,0	OR	980290,79	-980596,98		322,78	-118,23	-101,64	
BRITEN. BB29	44 46,55	-121 57,18	2506,0	OR	980350,09	-980598,76		235,83	-86,45	-99,29	
BRITEN. BB30	44 46,00	-121 55,62	2752,0	OR	980330,01	-980597,93		258,77	-94,84	-103,99	
BRITEN. BB01	44 46,92	-121 57,97	2297,0	OR	980365,80	-980599,32		215,99	-79,20	-96,73	
BRITEN. BB01	44 46,92	-121 57,97	2297,0	OR	980365,80	-980599,32		215,99	-79,20	-96,73	
BRITEN. BB31	44 47,81	-121 58,72	2861,0	OR	980335,51	-980600,66		269,01	-98,59	-94,73	
BRITEN. BB32	44 48,00	-121 58,63	2924,0	OR	980332,10	-980600,95		274,94	-100,75	-94,66	
BRITEN. BB33	44 48,18	-121 58,72	3041,0	OR	980325,80	-980601,22		285,93	-104,77	-94,26	
BRITEN. BB34	44 48,30	-121 58,74	3129,0	OR	980320,46	-980601,40		294,21	-107,80	-94,53	
BRITEN. BB01	44 46,92	-121 57,97	2297,0	OR	980365,80	-980599,32		215,99	-79,20	-96,73	