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**ARIZONA
GEOLOGICAL SURVEY**

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***Drill core data for the Red Mountain porphyry copper-molybdenum system,
Harshaw mining district, Patagonia Mountains, Santa Cruz County, Arizona***

Arizona Geological Survey Open-File Report 25-4

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Description:

Red Mountain in Patagonia, AZ hosts a porphyry copper-molybdenum deposit with a history of substantial exploration drilling. Drill data including logs, assay results, and geologic maps, as well as skeletonized drill core, were donated to the Arizona Geological Survey in 2004. This repository includes all available original drilling data, scanned and made available as PDFs, as well as tabulated data in spreadsheets.

Tabulated digital data and other products related to this document are available at:

<http://hdl.handle.net/10150/676938>

This work was funded by the United States Geological Survey National Geological and Geophysical Data Preservation Program, G23AP00215. The Arizona Geological Survey does not guarantee this document or associated digital data to be free of errors nor assume liability for interpretations made from this data, or decisions based thereon. The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U.S. Government.

HOLE NO. 135

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COLLAR COORDINATES 869,755:185,988
 COLLAR ELEVATION 5,740'
 DEPTH OF HOLE 5,139'

SAMPLE NO.	ELEVATION (Feet)	DEPTH INTERVAL (Feet)	FOOT- AGE	A S S A Y S								% CHAL- COPYRITE	% PYRITE	% TOTAL SULFIDE	% ANH- YDRITE	PY/CH RATIO
				Cu %	Mo ppm	Au oz	Ag oz	Pb ppm	Zn ppm	S %	S ⁼ %					
10010-10013	5550-5518	190- 222									4.67	2.55				
10014	5390-5340	350- 400	50								2.82	1.02				
10015+10017	5340-5180	400- 560	160	.14							9.41	8.59	16.03	16.20		
10018-10020	5180-5165	560- 575	15	.76	10	.003	.14				13.47	12.30	22.68	23.63		
10021-10028	5165-5125	575- 615	40	.32	20	.003	.12				9.87	9.03	16.76	17.16		
10029-10030 + 10047-10052	5125-5085	615- 655	40	1.19	20	.004	Tr.				10.50	9.55	17.32	18.81		
10053-10065	5085-5020	655- 720	65	.08		.003	Tr.				11.01	9.89	.23	18.37	18.60	79.9
10066-10081	5020-4940	720- 800	80	.03	110	.003	Tr.	60	80	11.13	8.49	.09	15.84	15.93		176.0
10082-10100 + 10301	4940-4840	800- 900	100	.03	90	.003	Tr.	150	70	9.30	8.66	.09	16.16	16.25		179.6
10302-10316	4840-4740	900-1000	100	.04	125	.004	Tr.	1685	230	8.52	8.45	.12	15.75	15.87		132.2
10317-10326	4740-4640	1000-1100	100	.10	80	Tr.	Tr.	335	165	7.89	7.80	.29	14.42	14.71		49.7
10327-10337	4640-4530	1100-1210	110	.13	35	Tr.	Tr.	830	65	8.69	8.68	.38	16.01	16.39		42.1
10338-10345	4530-4450	1210-1290	80	.19	10	.003	Tr.	1330	150	7.21	7.16	.55	13.05	13.60		23.7
10346-10356	4450-4340	1290-1400	110	.27	75	.004	Tr.	1150	135	5.50	5.50	.78	9.79	10.57		12.6
10357-10367	4340-4230	1400-1510	110	.18						4.20	4.20	.52	7.53	8.05		14.5
10368-10371	4230-4190	1510-1550	40	.10	10	.004	Tr.	810	100	3.61	3.41	.29	6.20	6.49		21.4
10372-10381	4190-4090	1550-1650	100	.08				1190	80	3.75	3.65	.23	6.69	6.92		29.1

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				Cu %	Mo ppm	Au oz	Ag oz	Pb ppm	Zn ppm	S %	S ²⁻ %							
10382-10391	4090-3990	1650-1750	100	.09		Tr.	Tr.					5.41	5.34	.26	9.83	10.09		37.8
10397-10506	3990-3840	1750-1900	150	.13		Tr.	Tr.					2.79	2.62	.38	4.66	5.04		12.3
10507-10516	3840-3740	1900-2000	100	.16	15	Tr.	Tr.	300	140			3.54	3.37	.46	6.01	6.47		13.1
10517-10526	3740-3640	2000-2100	100	.14	40	Nil	Tr.	190	90			1.69	1.65	.41	2.83	3.24		6.9
10527-10536	3640-3540	2100-2200	100	.12	15	Tr.	Tr.	195	145			2.06	1.96	.35	3.45	3.80		9.8
10537-10545 + 10556	3540-3440	2200-2300	100	.10	20	Tr.	Tr.	230	140			1.44	1.40	.29	2.43	2.72		8.4
10546-10555 + 10557	3440-3330	2300-2410	110	.08	10	Tr.	Tr.	140	100			2.24	1.95	.23	3.50	3.73		15.2
10558-10566	3330-3240	2410-2500	90	.13	10	Tr.	.12	200	140			2.40	2.32	.38	4.10	4.48		10.8
10567-10576	3240-3140	2500-2600	100	.14	10	Tr.	Tr.	145	125			2.45	2.40	.41	4.23	4.64		10.3
10577-10586	3140-3040	2600-2700	100	.13	10	Nil	Tr.	270	170			1.55	1.55	.38	2.66	3.04		7.0
10587-10596	3040-2940	2700-2800	100	.10	10	Nil	Tr.	120	100			1.54	1.42	.29	2.47	2.76		8.5
10597-10605	2940-2853	2800-2887	87	.09	10	Nil	Tr.	120	160			2.14	2.13	.26	3.82	4.08		14.7
26601-26611	2853-2740	2887-3000	113	.11	14	.001	.01	149	189			1.66	1.66	.32	2.90	3.22		9.1
26612-26621	2740-2640	3000-3100	100	.12	20	.001	.05	278	709			1.84	1.31	.35	2.23	2.58	2.26	6.4
26622-26631	2640-2540	3100-3200	100	.15	19	.001	.05	68	111			1.45	1.03	.43	1.65	2.08	1.79	3.8
26632-26641	2540-2440	3200-3300	100	.15	21	.001	.01	175	266			2.38	1.76	.43	3.02	3.45	2.64	7.0
26642-26651	2440-2340	3300-3400	100	.13	11	.001	.05	98	240			1.81	.95	.38	1.54	1.92	3.66	4.0

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				Cu %	Mo ppm	Au oz	Ag oz	Pb ppm	Zn ppm	S %	S ⁼ %					
26652-26662	2340-2240	3400-3500	100	.20	21	.001	.05	47	112	1.54	.96	.58	1.42	2.00	2.47	2.5
26663-26672	2240-2140	3500-3600	100	.14	21	.001	.05	66	108	2.64	1.80	.41	3.11	3.52	3.57	7.6
26673-26682	2140-2040	3600-3700	100	.15	15	.002	.07	27	95	1.47	1.14	.43	1.85	2.28	1.40	4.3
26683-26692	2040-1940	3700-3800	100	.11	11	.002	.06	33	130	1.37	.41	.32	.56	.88	4.09	1.8
26693-26700 + 26251-26253	1940-1840	3800-3900	100	.15	34	.001	.03	25	105	1.17	1.02	.43	1.63	2.06	.64	3.8
26254-26263	1840-1740	3900-4000	100	.15	14	.001	.04	102	264	.99	.80	.43	1.22	1.65	.81	2.8
26264-26273	1740-1640	4000-4100	100	.08	18	.001	.03	31	133	1.17	.89	.23	1.52	1.75	1.19	6.6
26274-26283	1640-1540	4100-4200	100	.10	41	.001	.03	52	181	.90	.88	.29	1.46	1.75	.09	5.0
26284-26293	1540-1440	4200-4300	100	.11	65	.001	.07	44	116	.89	.62	.32	.96	1.28	1.15	3.0
26294-26300 + 27201-27209	1440-1340	4300-4400	100	.24	81	.002	.06	49	101	.76	.55	.70	.58	1.28	.89	0.8
27210-27224	1340-1265	4400-4475	75	.33	261	.003	.07	35	102	.99	.99	.97	1.24	2.21	-----	1.3
27225-27234	1265-1190	4475-4550	75	.52	103	.003	.11	43	123	1.31	1.26	1.54	1.37	2.91	.21	0.9
27235-27246	1190-1095	4550-4645	95	.57	32	.004	.095	25	104	.96	.93	1.68	.66	2.34	.13	0.4
27247-27257	1095- 990	4645-4750	105	.10	25	.001	.01	17	116	.99	.45	.29	.66	.95	2.30	2.3
27258-27267	990- 890	4750-4850	100	.07	22	.001	.05	15	153	1.40	.67	.20	1.12	1.32	3.11	5.6
27268-27277	890- 790	4850-4950	100	.18	47	.001	.04	38	222	1.33	.80	.52	1.16	1.68	2.26	2.2
27278-27287	790- 690	4950-5050	100	.24	72	.002	.03	26	156	1.62	1.17	.70	1.74	2.44	1.91	2.5
27288-27296	690- 601	5050-5139	89	.12	58	.001	.02	14	121	1.39	.96	.35	1.57	1.92	1.83	4.5