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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.

KERR-McGEE OIL INDUSTRIES, INC.

District Harshaw - Red Mtn.
Hole Number DDH-126
Spudded
Completed
Total Depth 1855 feet
Driller Joy Mfg. Co.
Logged By R.A.

County Santa Cruz State Arizona
Claim Sec T. R.
Elevation
Hole Size
Core Size BX from 1465 feet
Hole Angle
Collar Coords. 191,132 N.
864,570 E.

Depth	Int.	%Core Rcvy	Samp. No.	Cu	Mo	Au.	Ag.	Rock Type	Rock Description	Alteration	Mineralization
0		PLUGGED TO 1465 FEET									
1465								trachyte	gray, well silicified	quartz-sericite-pyrite	fair to poor capping, black to maroon hema-
1468		3/3						tuff or			tite in scarse vugs or fractures
1472		4/4						flow			
1475		2/3									
1480		5/5	5483			trace	trace	"	brecciated 475-485 feet	"	fair capping; more iron in breccia; capping
1495		10/10	5484			trace	trace				variable but mostly poor below 480 feet
1498		6/8									
1502		2/9									
1510		9/9	5485			trace	trace				
1516		4/5									
1517		1/1									
1520		2/3									
1525		5/5	5486			trace	trace				
1527		2/2									
1528		1/1									
1532		2/4									
1535		2/3						"	gray, silicified, well	quartz-sericite-pyrite	poor capping, vugs empty, limonite staining
1537		2/2							broken	clay	in rock
1539		1/2									
1540			5487			trace	trace				
1542		1/3									
1546		1/4									
1549		2/3									
1550		1/1						"	gray, less silicifica-	"	poor to fair capping, scattered specks of red
1555			5488			trace	trace		tion		hematite and limonite with some indigenous
1556		6/6									iron in vugs and veinlets
1560		2/4									
1569		9/9									
1570			5489			trace	trace				

District Harshaw - Red Mtn. Hole Number DDH-126 Page Number 2

Depth	Int.	%Core Rcvy	Samp. No.	Assays Cu	Mo	Au.	Ag.	Rock Type	Rock Description	Alteration	Mineralization
1571		2/2						trachyte			
1572		1/1						tuff or			
1575		2/3						flow			
1577		1/2						"	red-gray	"	rock flooded with red iron oxides, poor
1585		7/7	5490			.003	trace				capping
1586		2/2									
1594		7/8									
1597		2/3									
1598		1/1						"	red-gray, silicified	quartz-sericite-pyrite	poor capping; red iron oxides flood rock,
1600			5491			trace	trace			clay	rock more leached out than above
1602		3/4									
1603		1/1						"	gray, silicified	"	little or no iron, vugs filled with clay;
1606		2/3									steeply dipping fracture at 1609 feet
1608		2/2									lined with red to maroon and black hema-
1611		3/3									tite
1615			5492			trace	trace				
1618		7/7									
1624		6/6									
1626		2/2						"	gray-red, well silici-	"	poor to fair capping, red to maroon and
1628		1/2							fied		black hematite throughout rock
1630		2/2	5493			.002	trace				
1634		4/9									
1639		4/5									
1641		2/2									
1645			5494			trace	trace				
1648		6/7									
1649		1/1									
1656		6/7									
1658		1/2									
1660		2/2	5495			trace	trace				
1662		2/2									
1664		1/2									
1666		2/2									
1667		1/1									
1669		1/1									
1671		1/3						"	gray, silicified, num-	"	rock stained lightly with limonite, few
1673		2/2							erous vugs, fractures		fractures show maroon or black hematite,
1675			5496			trace	trace		trend 45°		most are stained red
1676		2/3									
1677		1/1									

District Harshaw - Red Mountain Hole Number DDH-126 Page Number 3

Depth	Int.	%Core Rcvy	Samp. No.	Assays Cu	Mo	Au.	Ag.	Rock Type	Rock Description	Alteration	Mineralization
1678		1/1						trachyte	gray, silicified, num-	quartz-sericite-pyrite	rock stained lightly with limonite; few
1680		2/2						tuff or	erous vugs, fractures	clay	fractures show maroon or blush hematite,
1690	15	10/10	5612			trace	trace	flow	trend 45°		most are stained red
1693		3/3									
1703		10/10									
(1690) 1705	15		5613			.025	trace				
1709		4/6									
1714	9	4/5	5614			trace	trace				
1721		6/7									
1722	8		5617			trace	trace				
1723		1/2									poor capping; little iron in vugs; red
1725		1/2									iron coats fracture dipping 60° at 1733'
1729		1.5/4									
1732		2/3									
1735	13	3/3	5615			trace	trace				
1738		3/3									
1742		4/4									
1742.1	7.1		5616			trace	trace				
1743	0.9		4859	1.87		trace	.20				disseminated pyrite shows tarnish
1745.8	2.8		5498	.06		.004	trace				entirely oxidized
1749		4/4			–						
1750.4	4.6		5497	.50		.003	trace				minor oxidation, chalcocite tarnish along
1752		2/3									fractures
1755	4.6		5500	.04							
1759									light gray, less silic-		oxidation confined to larger fractures,
1760	5	9/4	5501	.03					ification		limonite flooding rock outward from frac-
1762		2/3									tures
1765	5		5502	.04							
1769		7/7									
1770	5		5503	.03					clay alteration in-		no oxidation noted, pyrite scarse
1775	5		5504	.03					creasing		
1779		10/10									
1780	5		5505	.04							
1785	5		5506	.03							
1789		10/10									
1790	5		5507	.03					light gray, very little	clay alteration intense	disseminated pyrite, scarse pyrite,
1795	5	6/6	5508	.02					silicification	quartz-sericite-pyrite	veinelts show little or no tarnish
1800	5		5509	.01					gray, vuggy or porous	clay	
1802		7/7									
1805	5		5499	.02		trace	trace				

District Harshaw - Red Mtn. Hole Number DDH-126 Page Number 4

Depth	Int.	%Core Rcvy	Samp. No.	Assays Cu	Mo			Rock Type	Rock Description	Alteration	Mineralization
1806		4/4						trachyte tuff or flow	gray, vuggy or porous	quartz-sericite-pyrite clay	disseminated pyrite, scarse pyrite veinlets show little or no tarnish
1809		3/3									
1810	5		5510	.02							pyrite more abundant, no enrichment noted
1815	5	6/6	5511	.03							
1820	5		5512	.02							
1824		9/9									
1825	5		5513	.02							
1830	5		5514	.02							
1834		10/10									
1835	5		5515	.02							
1840	5		5516	.02							
1845	5	11/11	5517	.02							
1850	5		5518	.03							
1855	5	10/10	5519	.02							
		END OF HOLE									