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Table 3.--Physical properties, USBM/AEC Colorado Core Hole No. 3 (Bronco BR-1), Rio Blanco County, Colorado

Location: SW1/4, SW1/4, SW1/4 sec. 14, T. 1 N., R. 98 W.

Elevation: 6,356 feet above sea level

/Analysts: P. Powers and A. Chleborad/

								Dynamic properties						Static properties				
Hole depth (feet)	Structural unit	Rock type	Saturated bulk density (calculated total g/cc)	Dry bulk density (mercury displacement g/cc)	Grain density (powdered grain in kerosene g/cc)	Porosity (calculated total percent)	Shore hardness (shore units)	Compressional velocity (ft/sec)	Shear velocity (ft/sec)	Poisson's ratio	Young's modulus (10^6 psi)	Shear modulus (10^6 psi)	Bulk modulus (10^6 psi)	Poisson's ratio	Secant Young's modulus (10^6 psi)	Shear modulus (10^6 psi)	Bulk modulus (10^6 psi)	Unconfined compressive strength (psi)
1,356	C	oil shale	2.27	2.27	2.28	0.44	49	12,796	7,481	0.24	4.23	1.71	2.71	0.22	1.24	0.74	0.51	18,000
1,456	C	leached oil shale	2.29	2.21	2.40	7.92	44	10,434	5,807	0.27	2.54	1.00	1.84	0.24	1.76	1.13	0.71	14,000
1,652	D	leached oil shale	2.32	2.14	2.60	17.69	35	--	--	--	--	--	--	--	--	--	--	--
1,918	E	leached oil shale	2.40	2.34	2.48	5.65	51	14,075	7,907	0.27	5.00	1.97	3.62	--	--	--	--	---
1,992	E	oil shale	2.14	2.13	2.16	1.39	38	9,581	5,873	0.20	2.37	0.99	1.32	0.25	1.14	0.76	0.46	13,000
2,108	E	oil shale	2.02	2.01	2.04	1.47	45	8,235	4,692	0.26	1.50	0.60	1.04	0.085	0.31	0.12	0.14	13,800
2,296	E	oil shale with nahcolite-filled vugs	2.12	1.94	2.37	17.72	24	10,434	5,020	0.35	1.78	0.66	1.98	0.14	0.79	0.36	0.35	3,200
2,650	E	oil shale	2.10	2.10	2.12	1.42	50	10,270	5,805	0.26	2.40	0.95	1.67	0.23	0.50	0.31	0.20	11,000
3,005	F	claystone	2.53	2.52	2.54	0.79	47	15,257	8,498	0.28	6.27	2.45	4.75	0.13	3.93	1.77	1.74	16,000
3,065	F	silty claystone	2.29	2.25	2.35	4.26	37	11,549	6,070	0.31	2.92	1.12	2.56	--	--	--	--	--
3,118	F	silty claystone	2.31	2.27	2.37	4.22	24	13,879	8,203	0.23	5.06	2.06	3.12	--	--	--	--	---
3,145	F	dolomitic siltstone	2.42	2.26	2.70	16.30	36	11,812	7,054	0.22	3.69	1.31	2.20	0.16	1.35	0.66	0.58	6,900
3,178	F	dolomite	2.54	2.44	2.72	10.29	31	13,386	8,203	0.20	5.31	2.21	2.95	--	--	--	--	--
3,253	F	siltstone	2.54	2.48	2.65	6.42	37	--	--	--	--	--	--	--	--	--	--	--
Selected Average values for structural units C-F																		
	C					4.18		11,615	6,644		3.38	1.36	2.28		1.50	0.94	0.61	16,000
	D					17.69		--	--			--	--		--	--	--	--
	E				(includes nahcolite)	5.53		10,519	5,859		2.61	1.03	1.93		0.68	0.39	0.29	10,250
					(excludes nahcolite)	2.48					4.65	1.83	3.12		2.64	1.22	1.16	11,450
	F					7.05		13,177	7,606									
Selected Average values for all samples																		
						6.86		11,809	6,718		3.59	1.42	2.48		1.38	0.73	0.59	11,988