Table 3-6Locatable Minerals Deposits in the Rawlins RMPPA

Commodity	Location	Geologic Description	Deposit Type	Production History	Future Potential			
Sedimentary Uranium								
Shirely Basin Deposits (USGS PP 745)	T27-28N, R 77-80W Shirley Basin 30 x 60	Sandstone uranium deposits hosted in the Tertiary Wind River Fm.	Epigenetic redox/roll front uranium deposits.	Major mines: Petrotomics, Pathfinder, Jenkins. Est. production about 10 to 20 million pounds of U3O8.	Major district with considerable future potential for uranium. Est. resource of 50 million pounds.			
Red Desert Deposits (USGS Bull. 1030-I) (USGS Bull. 1099-B)	T18-21N, R99-101W Red Desert 30 x 60	Lignite coal uranium. Low grade uranium mineralization in lignite beds of the Wasatch and Green River formations.	Disseminated uranium in lignite beds. Grades range from 0.003 to 0.007 percent U3O8.	No production of uranium. Estimated resources are 24,000 tons of uranium in coal. Coal estimated at 20 percent stripable.	Grades too low for future production except as byproduct of lignite coal production.			
Great Divide Basin (WGA Guidebook, 25th field conference)	T24-26N, R93096W Red Desert 30 x 60	Sandstone and evaporative uranium prospects hosted in Tertiary Battle Spring and Bridger Fms.	Epigenetic redox/roll front uranium deposits. Also evaporative uranium deposits near Lost Creek mine.	Lost Creek Schroeckinite Deposit(T26N: R94W). Grades are 0.013 to about 0.28 percent U3O8.	Limited future potential. _{No} major deposits.			
Poison Buttes (Baggs) (Ore Deposits Western US)	T12-13N, R92W Baggs area Saratoga 30 x 60	Sandstone uranium deposits hosted in Tertiary Browns Park Fm.	Disseminated and epigenetic redox/roll front uranium deposits.	Urangesellschaft proposed mine at2,000 tpd production.	Considerable future potential at higher uranium prices. Estimated resource of 8 to 15 million pounds.			
Ketchum Buttes (USGS Bull. 1046-M) (USGS PP 538)	T15N, R89W Northeast of Encampment Saratoga 30 x 60	Sandstone uranium prospects hosted in Tertiary Browns Park Fm.	Disseminated and epigenetic redox/roll front uranium deposits.	Prospects only				
Desert Rose area (USGS PP 538) (USGS MR-21)	T13N, R76W Southwest of Laramie Laramie 30 x 60	Sandstone uraium prospects hosted in Cretaceous Clovery Fm.	Disseminated and epigenetic redox/roll front uranium deposits.	Prospects only				
Miller Hill area	T18N, R88W Rawlins 30 x 60	Sandstone uranium prospects hosted in Tertiary Browns Park Fm.	Disseminated and epigenetic redox/roll front uranium deposits.	Prospects only				
Encampment/Riverside	T15-16N, R84-85W Saratoga 30 x 60	Sandstone uranium prospects hosted in Tertiary Browns Park Fm.	Disseminated and epigenetic redox/roll front uranium deposits.	Prospects only				
Magmatic Uranium								
Pedro Hills	T26N, R81W West side of Shirley Basin Shirley Basin 30 x 60	Veins in Precambrian rocks	Magmatic-hydrothermal uranium veins along fissures	Little Man Mine - no production history	Limited future potential - this type of deposit is difficult to develop.			
Titaniferous Magnetite								
Iron Mountain District (WGS Bull. 31) (Ore Deposits of US)	T18-19N, R71W Rock River 30 x 60	Lenses, masses, and beds of titaniferous magnetite and Ilmenite with spinel in Precambrian Laramie Anorthosite.	Magmatic segregations and/or possible replacments within layered mass of feldspar and olivine called Laramie Anorthosite. Deposits follow anticlinal axis of anorthosite.	Main mines are Shanton, Iron Mountain, and Sybille Pit. Past production about1.1 million tons to 1968. Past operators were Union Pacific Railroad and Anaconda.	Estimated 30 million tons of massive ore at 45% Fe and 20% TiO2. Disseminated ore estimated at148 million tons at 20% Fe and9.7% TiO2.			
Sheep Mountain (WGS OFR 90-7)	T15N, R77W Medicine Bow 30 x 60	Titaniferous magnetite black sand deposit in the Mesaverde Formation.	Paleo-beach sand deposit 4,300 feet long and about 50 feet x 17 feet. Grades are 15.6 % TiO2. No identified resource.	No production.	Uncertain			

Table 3-6 (Continued)

Commodity	Location	Geologic Description	Deposit Type	Production History	Future Potential
Rare Earths And Yttrium, In	ncluding Columbite And	Tantalite			
	T13N, R81-82W	Veins and pegmatites in Precambrian	Hydrothermal veins and pegmatites	Prospects only.	
	Saratoga 30 x 60	granite intrusives.	in granites	-	l
Tie Siding Area	T12N, R71-72W	Pegmatites in Sherman Granite	Radioactive pegmatites	Prospects only.	
WGA Guidebook 42)	Laramie 30x60			-	
Red Mountain Syenite	T22N, R71W	Disseminated allanite in Precambrian	Disseminated REE deposit	No Production.	
WGA Guidebook 42)	Laramie 30 x 60	syenite intrusive mass.	<u>_</u>		
ox Creek Pegmatites	T13N, R78W	Pegmatites with columbite and tantalite		Past production of 85 pounds of	
WGA Guidebook 42)	Laramie 30 x 60		<u> </u>	columbite and tantalite	
tratabound Gold					
()	T27N, R87-88W Bairoil 30 x 60	Vein-like deposits and beds in Precambrian metasediments and granites	copper deposits and associated intrusives with veins. Gold and copper associated with jasperoid beds.	past production.	Deposit type known to host major gold deposits worldwide.
Seminoe Mountains	T25-26N, R84-86W	Vein-like deposits and beds in			Estimated 100 million tons of
	Bairoil 30 x 60	Precambrian metasediments and	copper deposits and associated	Three adits with limited	Fe ore at 28 to 68% Fe. Gold
(Klein, 1981: CSM Thesis)		granites			values to 2.7 opt Au. Nephrite
(WGS Prelim Rpt 6)			copper associated with jasperoid beds in hornblende schist.	production of about 530 oz Au.	jade present in Seminoe area.
Copper-Gold Deposits					
Jelm Mountain District	T12-13N, R76-77W	Copper-gold-silver-arsenic-bismuth			Deposits similar to major gold
WGS RI-23)	Laramie 30 x 60	"veins" in Precambrian amphibolite			deposits of Canada. Veins
(WGS Bull. 50)	Saratoga 30 x 60	schist.	mineralized pegmatites.	data on past production histories.	may be folded beds, as they are in Canada.
Cooper Hill District	T18N, R78W	Copper and gold veins in Precambrian			Deposits similar to major gold
(WGS RI-23)	Medicine Bow 30 x 60	schist.			deposits of Canada. Veins
				production history.	may be folded beds, as they are in Canada.
Silver Crown District	T13-14N, R69-70W	Precambrian quartz monzonite intrusive			Copper King is only drilled
(WGS OFR 82-4)	Laramie 30 x 60	related to Nash Fork - Mullen Creek			reserve in area. May become
(WGS Prelim. Rpt 14)		Shear Zone.	island-arc volcanism and intrusive igneous rocks.		economic at higher copper and gold prices.
Kimberlite/Diamonds					
Iron Mountain District	T19-20N, R70W	Devonian kimberlite intrusives into	Kimberlite pipes with diamonds.		Diamonds small and mainly of
	Rock River 3 0x 60	Precambrian Laramie Anorthosite.	· · · · · · · · · · · · · · · · · · ·		industrial quality.
(Hausel and Roberts, 1984)					
Stateline District	T12N, R72W	Devonian kimberlite intrusives into			Diamonds small and mainly of
(WGS OFR82-1)	Laramie 30 x 60	Precambrian granites and			industrial quality. Potential for
(WGS Prelim Rpt 18)		metamorphics.			
		·	'	diamonds.	high.