TABLE 1—Known and possible Cambrian-Ordovician carbonatites and alkaline igneous rocks in New Mexico and southern Colorado. Locations are shown on Figure 1.

AREA	LITHOLOGY	AGE	ASSOCIATED MINERAL DEPOSITS	AVAIL. DATA	REFERENCES
McClure Mountains	Carbonatite dikes, alkaline-mafic complex	517-704 Ma (K-Ar, Rb-Sr, fission track)	Th-REE veins	majors	Fenton and Faure (1970), Olson et al. (1977), Armbrustmacher (1984), Bickford et al. (1989)
Democrat Creek	Syenite, mafic-ultramafic complex, carbonatite dikes	520-546 Ma (K-Ar, Rb-Sr, fission track)	Th-REE veins	Majors	Olson et al. (1977), Armbrustmacher (1984)
Gem Park	Carbonatite dikes, syenite, mafic	551 (K-Ar)	Vermiculite, Nb	Majors	Olson et al. (1977), Armbrustmacher (1984)
Iron Hill	Carbonatite stock, alkaline complex	550-579 Ma (K-Ar, Rb-Sr, fission track)	Th-REE veins	Majors	Fenton and Faure (1970), Olson et al. (1977), White-Pinilla (1996)
Black Canyon, Gunnison	Diabase dike	533-495 (K-Ar)		Majors	Larson et al. (1985)
Sangre de Cristo Mountains (Elk Mountain-Spring Mountain area)	high-Na syenites?	?	None	XRF	Klich (1983), McLemore (1989)
Costilla Creek (Questa)	Diabase, gabbro, diorite dikes	500-670 (Rb-Sr)	none	none	Reed (1984), Reed et al. (1983), Lipman and Reed (1989)
Nacimiento Mountains	high-K episyenites	?	None	None	Woodward et al. (1977), McLemore (1989)
Zuni Mountains	high-Na, K episyenites	?	None	XRF, ICP	Lambert (1983), McLemore and McKee (1989), Strickland et al. (2000)
Pedernal Hills	high-Na episyenites	469±7(Rb-Sr)	U-REE-fluorite veins	U, Th, majors	Loring and Armstrong (1980), McLemore (1984)
Rattlesnake Hills	Basalt dike	848±42 Ma (K-Ar)	None	none	Setter and Adams (1985), Setter (1985)
Lobo Hill (Moriarty)	high-K episyenite, monzonites, carbonatite dike, lamprophyre	518±5.7 ($^{40}Ar/^{39}Ar$)	U-Th-REE-fluorite veins, aggregate	XRF	Loring and Armstrong (1980), McLemore (1984), McKeown (1991), McLemore et al. (1999)
Monte Largo (Sandia Mountains)	Carbonatite dike, melterzite sill, lamprophyre	?	None	XRF	Lambert (1961), McLemore (1983, 1984)
Lemitar Mountains	Carbonatite dikes	457 ± 16 (K-Ar, biotite)	Uranium veins, silver-lead veins, barite-fluorite veins	Major and trace chem, XRF, ICP	McLemore (1982, 1983, 1987a), McLemore and Modreski (1990)
Chupadera Mountains	Carbonatite dikes	?	None	XRF, ICP	Kent (1982), Bowing et al. (1983), McLemore (1983, 1987a), Van Allen et al. (1986)
Sevilleta	high-K episyenites	?	none	XRF, ICP	McLemore (2016)
Red Hills	high-K episyenites, mafic dikes	? (field evidence indicates older than Bliss Ss)	U-REE-fluorite veins	XRF, ICP	Staatz et al. (1965), McLemore (1986)
Caballo Mountains	high-K episyenites, mafic dikes	? (field evidence indicates older than Bliss Ss)	U-REE-fluorite veins	XRF, ICP	McLemore (unpublished data 1988-2000)
Florida Mountains	high-Na episyenites-alkali granite	490-515 (Rb-Sr, K-Ar, $^{40}Ar/^{39}Ar$)	None	ICP, INAA, Nd	Evens and Clemons (1988), Loring et al. (1987), Matheny et al. (1988, 1990), Clemons (1998), Ervin (1998), Ervin and

	complex				McMillan (1997)
Burro Mountains	High-Na, high-K episyenites, granite, diabase dikes	533 Ma ($^{40}Ar/^{39}Ar$)	Minor REE veins	XRF	Gillerma and Whitebread (1956), Hedlund (1978a-e), McLemore and McKee (1988)
Redrock-Wildhorse Mountains area, northern Burro Mountains	high-K episyenites	?	Minor REE veins	XRF	McLemore et al. (2000), McLemore (2000)
Houston oil and Minerals Lewelling No. 2 oil test	Basalt or andesite	514±21 Ma (K-Ar)	None		Loring and Armstrong (1980)
Trans-Pecos Resources Latigo Ranch #1A and 1D oil tests	Gneiss, feldspar porphyry	720±36, 604±30 Ma (K-Ar)	None	None	Setter and Adams (1985)
Yates Petroleum T-4 Cattle Co. #1 and #2 oil test	granite	376±19, 664±35, 766±38 Ma (K-Ar)	None	None	Setter and Adams (1985)