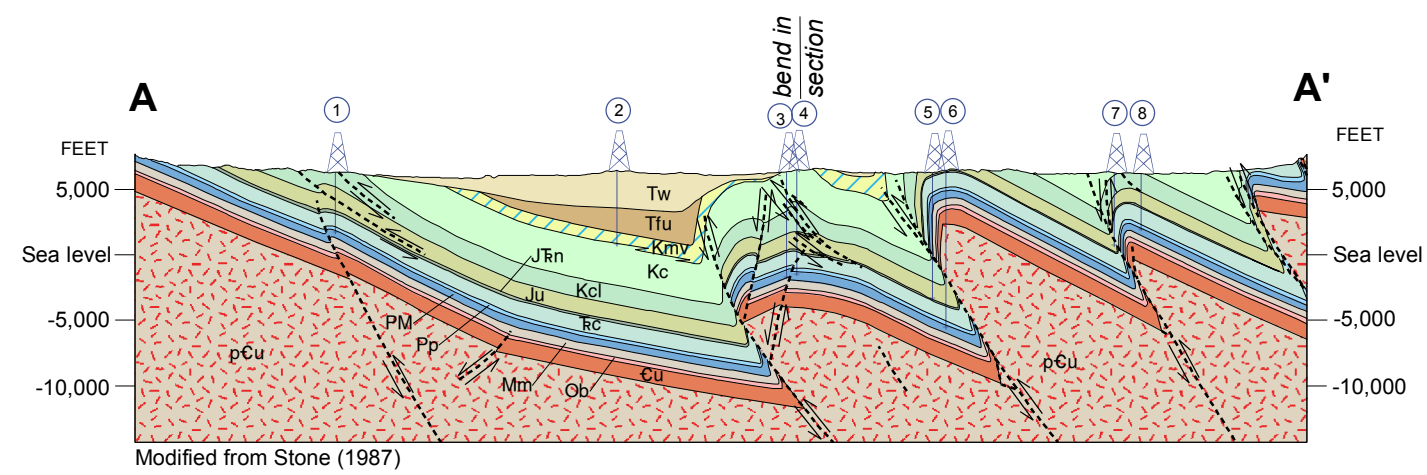


EXPLANATION

CROSS SECTION SYMBOLS

Fault – Dashed where inferred;
arrows indicate relative movement

 Drill hole – Well logs used to construct cross sections

CENOZOIC

Tertiary

- | | |
|------|-------------------------|
| Ti | Intrusive igneous rocks |
| Twb | Wagon Bed Formation |
| Twdr | Wind River Formation |
| Tw | Wasatch Formation |
| Tfu | Fort Union Formation |

MESOZOIC

Cretaceous

- | | |
|-----|--|
| Kl | Lance Formation |
| Kmv | Mesaverde Formation |
| Kc | Cody Shale |
| Kf | Frontier Formation |
| Kmt | Mowry Shale, Muddy Sandstone,
and Thermopolis Shale |
| Kcl | Coverly Formation |

GEOLOGIC UNITS

Cretaceous and Jurassic

- | | |
|------------------------------|--|
| KJ | Cloverly and Morrison Formations |
| Jurassic | |
| Ju | Jurassic rocks, undifferentiated |
| Jurassic and Triassic | |
| Jrk | Sundance and Gypsum Spring Formations,
and Nugget Sandstone |
| Jrn | Nugget Sandstone |
| Triassic | |
| Tc | Chugwater Formation |
| Tcd | Chugwater and Dinwoody Formations |

PALEOZOIC

Permian

- Pp** Phosphoria Formation

Permian, Pennsylvanian, and Mississippian

- PM Tensleep Sandstone and Amsden Formation

Mississippian

- Mm Madison Limestone

Mississippian, Devonian, and Ordovician

- MO Mississippian, Devonian, and Ordovician rocks, undifferentiated

Ordovician

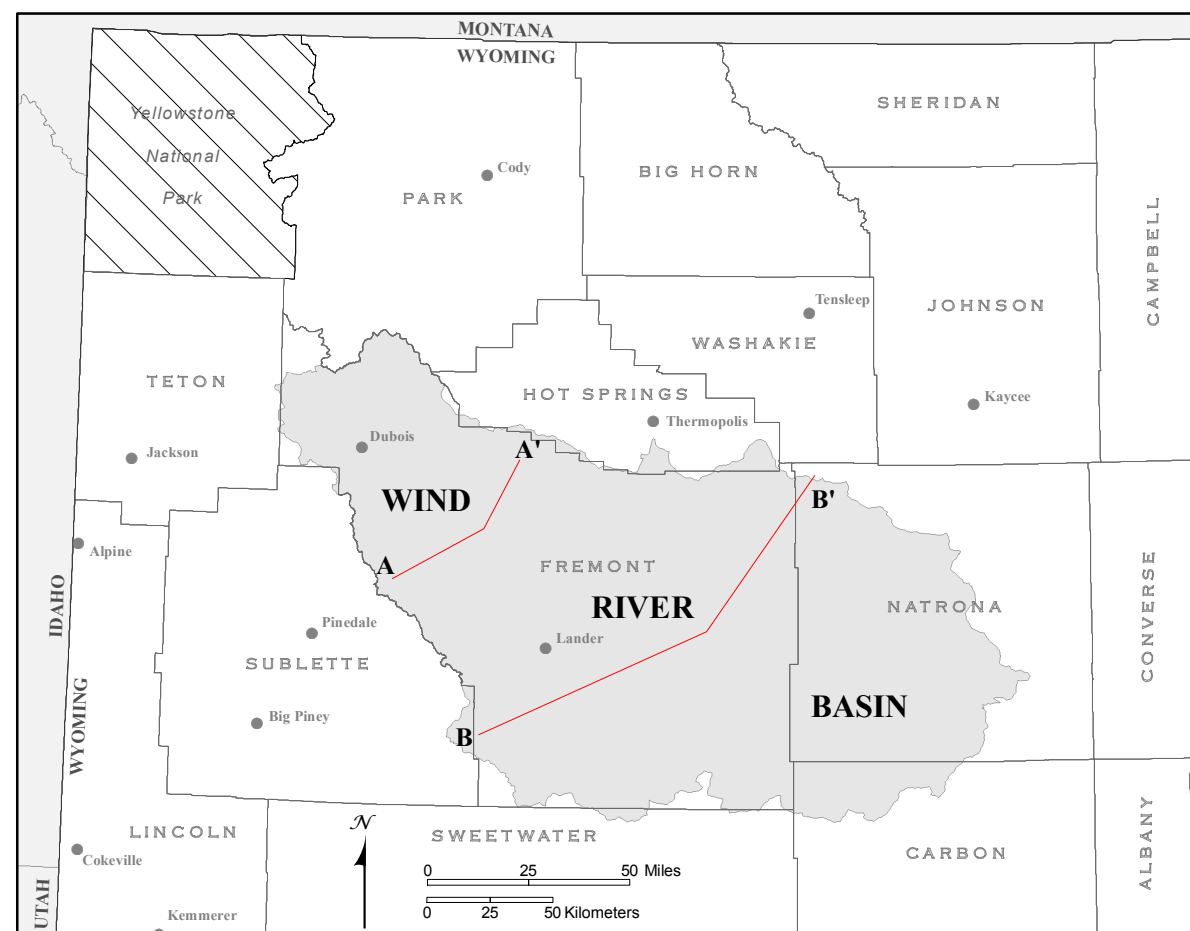
- Ob Bighorn Dolomite

Cambrian

- | | |
|----|----------------------------------|
| Eu | Cambrian rocks, undifferentiated |
|----|----------------------------------|

PRECAMBRIAN

- pCu** Precambrian rocks, undifferentiated



CROSS SECTION LOCATION MAP

REFERENCES

Stone, D.S., 1987, Rocky Mountain Transect–Wyoming, transect segments SW 3 and SW 2: Littleton, Co., DVD, version 2.0.

Taucher, P., Bartons, T.T., Clarey, K.E., Quillinan, S.A., Hallberg, L.L., Clark, M.L., Thompson, M., Gribb, N., Worman, B., and Gracias, T., 2012, In Copeland, D. ed., Available groundwater determination, Technical Memorandum, Wind/Big Horn River Basin water plan update, groundwater study, Level 1 (2008–2011). Prepared for the Wyoming Water Development Commission, by the Wyoming State Geological Survey, Laramie, Wyo., [variously paged].

ACKNOWLEDGMENT

The Wyoming State Geological Survey thanks D.S. Stone for his permission to modify portions of the Rocky Mountain Transect, as shown in cross section A - A'.

Layout and design by Phyllis A. Ranz and Robert Kirkwood
 Edited by Suzanne C. Luhr

WELL CONTROL ALONG CROSS SECTIONS

Well no.	API no.	Operator	Well name	Bottom formation	Surface location			County	Spud year
					sec.	T.	R.		
①	49-013-20303	Stoltz & Co.	Tribal 1-35	Tensleep	35	4N	4W	Fremont	1970
②	49-013-21236	Gulf Energy Corporation	Crowheart Butte 1 1-35-1	Cody	35	5N	3W	Fremont	1982
③	49-013-20090	Clinton Oil Company	Tribal Q 1	Madison	8	5N	2W	Fremont	1967
④	49-031-20054	Turner Smith & Associates	Tribal R 8-1	Madison	8	5N	2W	Fremont	1968
⑤	49-013-21422	American Beryllium Oil Corp.	AQP Tribal 36-33	Chugwater	36	6N	2W	Fremont	1984
⑥	49-013-21318	American Beryllium Oil Corp.	Tribal 9-24	Tensleep	9	6N	2W	Fremont	1981
⑦	49-013-06740	British American Oil	Tribal 1	Chugwater	4	6N	2W	Fremont	1954
⑧	49-013-06751	British American Oil	Arapahoe 2	Tensleep	3	6N	1W	Fremont	1956
⑨	49-013-21383	Hrubetz Oil Company	Dallas-Federal 1-19	Tensleep	19	32N	98W	Wind River	1983
⑩	49-013-06936	Sunset International	Govt 29-4B	Tensleep	29	32N	98W	Wind River	1966
⑪	49-013-05367	Cabeen Exploration	Govt 1	Tensleep	19	32N	98W	Wind River	1957
⑫	49-013-21915	Sauer Bill Oil & Gas Company LLC	Sauer Ogle 1	Frontier	7	32N	97W	Wind River	1999
⑬	49-013-05490	Conoco Inc.	Govt 29-4B	Morrison	8	32N	97W	Wind River	1956
⑭	49-013-22204	Phillips Petroleum Company	Corehole 2	Mesaverde	28	33N	97W	Wind River	2001
⑮	49-013-05623	Devon Energy Production Company LP	Beaver Creek Unit 10	Phosphoria	16	33N	96W	Wind River	1948
⑯	49-013-05639	Devon Energy Production Company LP	Beaver Creek Unit 55	Tensleep	16	33N	96W	Wind River	1958
⑰	49-013-05649	Devon Energy Production Company LP	Beaver Creek Unit 40	Cambrian	10	33N	96W	Wind River	1955
⑱	49-013-20381	Texaco Exploration & Prod.	Govt-P L Ackerman 1	Skull Creek	27	34N	95W	Wind River	1972
⑲	49-013-20334	Legacy Reserves Operation LP	Alkali Butte Unit 8	Madison	26	34N	95W	Wind River	1971
⑳	49-013-20547	Legacy Reserves Operation LP	Federal 1	Thermopolis	23	34N	95W	Wind River	1975
㉑	49-013-05903	M K M Oil Company	Hagood 1	Thermopolis	23	34N	95W	Wind River	1959
㉒	49-013-20184	Occidental	Govt-Campbell Ridge 1	Morrison	7	34N	94W	Wind River	1969
㉓	49-013-05997	SWEPI LP	Conant Creek Unit 22-27	Cody	27	35N	93W	Wind River	1962
㉔	49-013-21347	ANR Production Company	Conant Creek Unit 1-6	Fort Union	6	35N	92W	Wind River	1982
㉕	49-013-21454	Amerada Hess Corporation	Federal 30-23	Fort Union	30	36N	92W	Wind River	1984
㉖	49-013-22427	Encana Oil and Gas USA Inc.	Riverbank Unit 1	Meeteetse	31	37N	91W	Wind River	2004
㉗	49-013-20845	Dome Petroleum Corporation	Moneta Unit 1-29	Cody	29	37N	91W	Wind River	1978
㉘	49-013-21820	Noble Energy Inc.	State 44-36	Fort Union	36	38N	91W	Wind River	1997
㉙	49-013-21510	Burlington Resources Oil & Gas Company L	Bighorn 2-3	Gallatin	3	38N	90W	Wind River	1991
㉚	49-013-22127	Burlington Resources Oil & Gas Company L	Bighorn 8-35	Madison	35	39N	90W	Wind River	2001