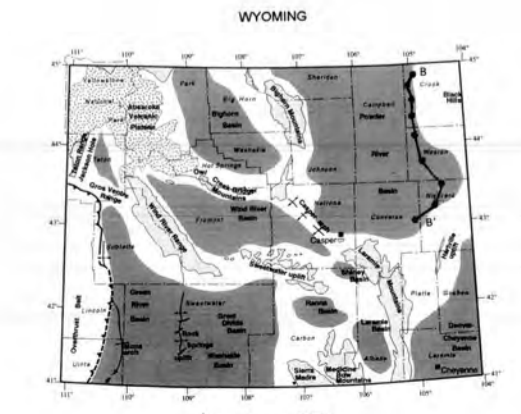
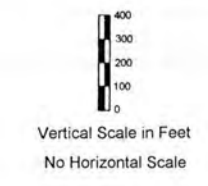


EXPLANATION
Datum is the top of the Mowry Shale.
In some instances the upper part of the geophysical logs are not included because of limits on sheet size.
This cross section has not been reviewed for conformity with the editorial and technical standards of the Wyoming State Geological Survey.
GR-Gamma Ray
SP-Spontaneous Potential
Res-Resistivity
Cond-Conductivity

SUBSURFACE CORRELATION OF SELECTED LATE CRETACEOUS AND OLDER FORMATIONS ALONG THE EASTERN POWDER RIVER BASIN, WYOMING

by
Rodney H. De Bruin

1998



B'
South
Norton Energy
#18-1 Spaugh
NW NE sec. 18, T34N, R65W
KB-4,907

B
North
Petrorep
#18 Signal Hill
NW NE sec. 11, T57N, R67W
KB-3,825

Datum-Top of Mowry Shale

Well	Depth (ft)	Formation	Well	Depth (ft)	Formation	Well	Depth (ft)	Formation	Well	Depth (ft)	Formation	Well	Depth (ft)	Formation	Well	Depth (ft)	Formation			
KB-3,944	235	Kh (Fox Hills Sandstone)	KB-4,253	1,545	Kh (Fox Hills Sandstone)	KB-4,267	2,572	Kh (Fox Hills Sandstone)	KB-4,551	3,136	Kh (Fox Hills Sandstone)	KB-4,398	4,238	Kh (Fox Hills Sandstone)	KB-4,061	4,090	Kh (Fox Hills Sandstone)	DF-4,103	4,455	Kh (Fox Hills Sandstone)
KB-3,944	295	Kp (Pierre Shale)	KB-4,253	1,730	Kp (Pierre Shale)	KB-4,267	2,738	Kp (Pierre Shale)	KB-4,551	3,302	Kp (Pierre Shale)	KB-4,398	4,360	Kp (Pierre Shale)	KB-4,061	4,291	Kp (Pierre Shale)	DF-4,103	4,658	Kp (Pierre Shale)
KB-3,944	312	Kn (Niobrara Formation)	KB-4,253	2,038	Kn (Niobrara Formation)	KB-4,267	3,011	Kn (Niobrara Formation)	KB-4,551	3,542	Kn (Niobrara Formation)	KB-4,398	4,608	Kn (Niobrara Formation)	KB-4,061	4,592	Kn (Niobrara Formation)	DF-4,103	4,738	Kn (Niobrara Formation)
KB-3,944	340	Kca (Carlisle Shale)	KB-4,253	2,312	Kca (Carlisle Shale)	KB-4,267	3,244	Kca (Carlisle Shale)	KB-4,551	3,815	Kca (Carlisle Shale)	KB-4,398	4,847	Kca (Carlisle Shale)	KB-4,061	4,738	Kca (Carlisle Shale)	DF-4,103	4,855	Kca (Carlisle Shale)
KB-3,944	385	Kg (Greenhorn Formation)	KB-4,253	2,545	Kg (Greenhorn Formation)	KB-4,267	3,465	Kg (Greenhorn Formation)	KB-4,551	4,005	Kg (Greenhorn Formation)	KB-4,398	4,952	Kg (Greenhorn Formation)	KB-4,061	4,855	Kg (Greenhorn Formation)	DF-4,103	5,007	Kg (Greenhorn Formation)
KB-3,944	405	Kbf (Belle Fourche Shale)	KB-4,253	2,730	Kbf (Belle Fourche Shale)	KB-4,267	3,655	Kbf (Belle Fourche Shale)	KB-4,551	4,530	Kbf (Belle Fourche Shale)	KB-4,398	5,245	Kbf (Belle Fourche Shale)	KB-4,061	5,007	Kbf (Belle Fourche Shale)	DF-4,103	5,245	Kbf (Belle Fourche Shale)
KB-3,944	425	Datum	KB-4,253	2,915	Datum	KB-4,267	3,840	Datum	KB-4,551	4,905	Datum	KB-4,398	5,430	Datum	KB-4,061	5,245	Datum	DF-4,103	5,430	Datum
KB-3,944	445	Kmr (Mowry Shale)	KB-4,253	3,100	Kmr (Mowry Shale)	KB-4,267	4,030	Kmr (Mowry Shale)	KB-4,551	5,005	Kmr (Mowry Shale)	KB-4,398	5,630	Kmr (Mowry Shale)	KB-4,061	5,430	Kmr (Mowry Shale)	DF-4,103	5,630	Kmr (Mowry Shale)
KB-3,944	465	Knc (Newcastle Sandstone)	KB-4,253	3,285	Knc (Newcastle Sandstone)	KB-4,267	4,215	Knc (Newcastle Sandstone)	KB-4,551	5,180	Knc (Newcastle Sandstone)	KB-4,398	5,805	Knc (Newcastle Sandstone)	KB-4,061	5,630	Knc (Newcastle Sandstone)	DF-4,103	5,805	Knc (Newcastle Sandstone)
KB-3,944	485	Ksc (Skull Creek Shale)	KB-4,253	3,470	Ksc (Skull Creek Shale)	KB-4,267	4,400	Ksc (Skull Creek Shale)	KB-4,551	5,355	Ksc (Skull Creek Shale)	KB-4,398	5,990	Ksc (Skull Creek Shale)	KB-4,061	5,805	Ksc (Skull Creek Shale)	DF-4,103	5,990	Ksc (Skull Creek Shale)
KB-3,944	505	Kfr (Fall River Formation)	KB-4,253	3,655	Kfr (Fall River Formation)	KB-4,267	4,585	Kfr (Fall River Formation)	KB-4,551	5,540	Kfr (Fall River Formation)	KB-4,398	6,175	Kfr (Fall River Formation)	KB-4,061	6,090	Kfr (Fall River Formation)	DF-4,103	6,090	Kfr (Fall River Formation)
KB-3,944	525	Kla (Lakota Formation)	KB-4,253	3,840	Kla (Lakota Formation)	KB-4,267	4,770	Kla (Lakota Formation)	KB-4,551	5,725	Kla (Lakota Formation)	KB-4,398	6,360	Kla (Lakota Formation)	KB-4,061	6,275	Kla (Lakota Formation)	DF-4,103	6,275	Kla (Lakota Formation)
KB-3,944	545	Jm (Morrison Formation)	KB-4,253	4,025	Jm (Morrison Formation)	KB-4,267	4,955	Jm (Morrison Formation)	KB-4,551	5,910	Jm (Morrison Formation)	KB-4,398	6,545	Jm (Morrison Formation)	KB-4,061	6,460	Jm (Morrison Formation)	DF-4,103	6,460	Jm (Morrison Formation)
KB-3,944	565	Js (Sundance Formation)	KB-4,253	4,210	Js (Sundance Formation)	KB-4,267	5,140	Js (Sundance Formation)	KB-4,551	6,095	Js (Sundance Formation)	KB-4,398	6,730	Js (Sundance Formation)	KB-4,061	6,645	Js (Sundance Formation)	DF-4,103	6,645	Js (Sundance Formation)
KB-3,944	585	Jgs (Gypsum Spring Formation)	KB-4,253	4,395	Jgs (Gypsum Spring Formation)	KB-4,267	5,325	Jgs (Gypsum Spring Formation)	KB-4,551	6,280	Jgs (Gypsum Spring Formation)	KB-4,398	6,915	Jgs (Gypsum Spring Formation)	KB-4,061	6,830	Jgs (Gypsum Spring Formation)	DF-4,103	6,830	Jgs (Gypsum Spring Formation)
KB-3,944	605	Trs (Spearfish Formation)	KB-4,253	4,580	Trs (Spearfish Formation)	KB-4,267	5,510	Trs (Spearfish Formation)	KB-4,551	6,465	Trs (Spearfish Formation)	KB-4,398	7,050	Trs (Spearfish Formation)	KB-4,061	6,965	Trs (Spearfish Formation)	DF-4,103	6,965	Trs (Spearfish Formation)
KB-3,944	625	Trpge (Goose Egg Formation)	KB-4,253	4,765	Trpge (Goose Egg Formation)	KB-4,267	5,695	Trpge (Goose Egg Formation)	KB-4,551	6,650	Trpge (Goose Egg Formation)	KB-4,398	7,235	Trpge (Goose Egg Formation)	KB-4,061	7,150	Trpge (Goose Egg Formation)	DF-4,103	7,150	Trpge (Goose Egg Formation)
KB-3,944	645	Pm (Minnelusa Limestone)	KB-4,253	4,950	Pm (Minnelusa Limestone)	KB-4,267	5,880	Pm (Minnelusa Limestone)	KB-4,551	6,835	Pm (Minnelusa Limestone)	KB-4,398	7,420	Pm (Minnelusa Limestone)	KB-4,061	7,335	Pm (Minnelusa Limestone)	DF-4,103	7,335	Pm (Minnelusa Limestone)
KB-3,944	665	Po (Opache Shale)	KB-4,253	5,135	Po (Opache Shale)	KB-4,267	6,065	Po (Opache Shale)	KB-4,551	7,020	Po (Opache Shale)	KB-4,398	7,605	Po (Opache Shale)	KB-4,061	7,520	Po (Opache Shale)	DF-4,103	7,520	Po (Opache Shale)
KB-3,944	685	Pmi (Minnelusa Formation)	KB-4,253	5,320	Pmi (Minnelusa Formation)	KB-4,267	6,250	Pmi (Minnelusa Formation)	KB-4,551	7,205	Pmi (Minnelusa Formation)	KB-4,398	7,790	Pmi (Minnelusa Formation)	KB-4,061	7,705	Pmi (Minnelusa Formation)	DF-4,103	7,705	Pmi (Minnelusa Formation)

INDEX MAP SHOWING LOCATION OF GEOPHYSICAL LOG CROSS SECTION