BULL MOUNTAIN SECTION

Location: Southwest face of Bull Mountain, Sec. 26, T. 12 N., R. 76W. No. 26 Base of Morrison. Drab Joint Shale

Sundance: (?)

Jelm:

- No. 54 Red limestone breccia. This bed is the characteristic bone bearing horizon throughout southern

 Wyoming. Its thickness thins from 3' to 6"......
- 29"
- 101 6"

281 6"

No. 52 Massive gray to brick red sandstone. The change of color is effective both vertically and horizontally.

Both extremes may be noted in a distance of three feet either across the face of the member or along the strike. A characteristic feature of this member which serves to distinguish it from the preceding is that it breaks up into slabs from 2" to 4" thick, many of which have an area of from 15 to 20 square feet.

No. 51	Red shaly sandstone. Several mottled streaks of
	gray and pink in upper three feet 7' 6"
No. 50	Very massive, soft, brick red sandstone. This member
	is very uniform in grain throughout its entire
	thickness and is cross-bedded on a large scale (eolian
	type). This bed does not have the tendency to weather
	shaly. It is of the monumental type 108'
Chugwater:	
No. 49	Soft red shale
No. 48	Red and gray sandstone. The contact between this
	sandstone and the underlying shale member is irregular.
	Upon weathering the bed breaks into slabs 6" to 8"
	thick. The surfaces of which are marked by large ripples.
	These ripples have the appearance of smalldomes and basins.
	The basins have an average depression of 1^n and a
	diameter ranging from 6" to 12". This is the first gray
	sandstone to be noted in several hundred feet 5' 6"
No. 47	Red shale. A six inch sandstone layer occurs 3' from
	the base. Thin irregular gray streaks and patches also
	present
No. 46	Red shaly sandstone
No. 45	Red joint shale. Contains a one inch gray streak
	two inches above base
No. 44	Red shaly sandstone. Torrentially cross-bedded on a
	very small scale
No. 43	Hard flaggy, red sandstone. The surface of the flags
	are marked with the following features: Claygalls,
	sun-cracks and ripple-marks

No. 42	ked shaly sandstone. Inis member presents massive
	surfaces upon fresh exposures. It weathers rapidly
	into thin flakes which give rise to shaly slopes.
	Ripple-marked surfaces common 67'
No. 41	Hard red ripple-marked sandstone. Upper and lower
	surfaces covered with clay-galls 1' 2"
No. 40	Massive red sandstone. Weathers into thin shaly
	flakes 12' 6"
No. 39	Red shale and thin red sandstone. Two thin (1" to
	2" thick) streaks of gray separated by 1" of red
	and present in the upper portion 12'
No. 38	Red sandstone. Weathers shaly 9'10"
No. 37	Red sandy shale
No. 36	Red sandstone presenting the same features as Bed No.34 6"
No. 35	Soft red shale
No. 34	Hard red sandstone. Torrential cross-bedding on a very
	minute scale. In the upper two inches the bedding
	planes are thrown into series of small wrinkles or folds
No. 33	Red sandy shale
No. 32	Red sandstone. This member appears massive upon fresh
	surfaces but upon weathering it breaks down into small
	roughly eliptical flakes. It displays on various sur-
	faces the evidence of shallow water deposition. Ripple-
	marking resembling trails are common 521
No. 31	Soft red shale and sandstone. The lower part of this
	member is covered with a drift of fine red sand. Shale
	predominates over the sandstone in the lower portion.
	Some thin gypsum seams may be present in the drift
	covered portion

	No.	30	White gypsum	11	9**
	No.	29	Soft red shale	91	6 ¹¹
	No.	28	White gypsum	21	6" - 3"
	No.	27	Bright red shale and shaly sandstone	521	
Fore	elle:				
	No.	26	Gray fragmental limestone	1'	6"
	No.	25	Deep red sandy shale	81	
	No.	24	Wavy crystalline limestone. Weathers to yellowish		
			gray on fresh fracture. Evidence of sun-cracking		
			on upper surface	21	
	No.	23	Gray, red and purple ribbon limestone. This rock is		
			very dense and resistant. It consists of thin (1/4		
			to 1/16" thick) alternating plates of red, gray and		
			purple limestone. These layers are best exhibited on		
			erosion surfaces accentuated by differential weather-		
			ing. It is significant to note that the red and purple	€	
			bands are more resistent than the gray	181	
	No.	22	Irregular wavy gray limestone. Dirty brown on		
			weathered surfaces	21	611
	No.	21	Gray, red and purple, ribbon limestone		6"
Sata	nka:				
	No.	20	Deep red sandstone and shale. Sandstone predominates		
			in the upper portion while shale is characteristic of		
			the lower. The upper 25' to 30' ate mottled with an		
			abundance of small white spots averaging less than		
			1/8" in diameter. This sandstone has a roughly con-		
			cretionary habit scaling off in successive layers of		
			varving thickness	981	

No	. 19	Variously colored very soft sandstone. Color		
		chiefly buff to brown with minor amounts of pink and		
		red. Four feet from the base of this member is a		
		thin irregular bed of gypsum and aragonites	10'	6 ¹¹
No	. 18	Dark crystalline limestone. This member has a marked		
		fetid ordor on fresh fracture		4"-6"
No	. 17	Soft cream colored shaly limestone. No fossils	11	211
Casper:				
No	. 16	Massive buff to salmon pink uniform grained eclian		
		cross-bedded. The pink color is characteristic of the		
		lower 1/3 of the member where it occurs in association		
		with buff. The upper two-thirds is predominantly buff		
		with thin irregular streaks of brown 16	41	
No	. 15	Red sandstone and sandy shale. Five feet from the top		
		of this bed is an irregular band (maximum thickness 1)		
		of buff sandstone. This member passes gradually into		
		the sandstone above	31'	6 ¹¹
No	. 14	Massive gray sandstone	21	
No	13	Red shale changing upwards into pink sandstone	10'	
No.	. 12	Red shale with some green spots present	21	9"
No	. 11	Gray sandstone with some thin red streaks	81	
No	10	Deep red joint shale	31	6 ¹¹
No	9	Gray sandstone	1'	3 ^{tt}
No.	. 8	Red shale		6 ^{tt}
No.	7	Massive fine grained gray sandstone	51	611
No.	6	Red and gray sandstones changing locally into red sandy		
		shale. The gray color covers from 4 to 5 per cent of th	е	
		exposed surface. The change from red to gray is gradual		

and is not restricted to bedding planes. The change
may be complete in 10' or less 22' 3"
No. 5 Red Joint shale. An irregular band of gray two to
six inches thick occurs one inch from the top 3'
No. 4 Red, sandy shale. This member contains six gray streaks
ranging from $\frac{1}{2}$ to 4^{11} in thickness
No. 3 Massive fine grained red sandstone 3'
Fountain:
No. 2 Arkose conglomerate and thin interbedded sandstone. This
member is not exposed sufficiently for detailed sub-
divisions. It consists of medium fine red to gray
arkose containing pebbles to three and four inches in
diameter. Cut-and-fill structure is a promounced
feature. Limestone lenses varying greatly in both
vertical and horizontal distribution are characteristic.
One of these lenses has a maximum thickness of 3. Thin
red and gray sandstones are interbedded with the con-
glomerate. Approximately 70% of the whole is arkose
grits 458†
Pre-Cambrian:
No. 1 Coarse grained pink to red granite. Contact with the

overlying sediments poorly exposed......