

Argon Drilling Co. No. 1-14 Buckman  
Core No. 1 (Herington-Krider) 2183-2222 cut 39' Rec 37'  
2' presumed lost at bottom of core

Visual Description Bill Little: Geologist

- 2183-87 1/2 Red-shale
- 2187 1/2-88.3 Mottled green shaly sandstone
- 2184.3-86 Green shale - laminated @ top
- 2186-87 Dol. buff, well pitted on exterior
- 2187-87.3 Dk gray platy shale
- 2187.3-87.6 Mottled shaly & dol
- 2187.6-89 1/2 shale, dk gray to black platy
- 2189 1/2-92 1/2 Dol. gray, terminated w/ gray shale
- 2189 1/2-95.9 Becoming very shaly
- 2115.1-2191 shale, gray to brownish, platy
- 2197-2208 Ls. gray, w/ slight pitting.
- 2208-2219 1/2 A.A. but w/ good pitting & scattered shaly nodules
- 2219 1/2-20 More dense, less pitting
- 2220-2220.3 shaly gray limy
- 2220.3-22 Lost core

Aspen Drilling Co. No. 1-14 Buckman  
 Core No. 1 (Harrington-Krider) 2183-2222 Cut 39' Rec 37'  
 2' Presumed lost at bottom of core

- 2183-84.3 Top half shale, brown, blocky dolomitic; interbedded grayish-green dolomitic shale & gray silty.
- 2184.3-85 Laminated grayish-green dolomitic shale & lt. gray v.f. grained dolomite
- 2185-86 Dol, grayish green; v.f. xtn, argill. w/ dark gray dolomitic shale
- \* 2186-87 Dol, buff, micro-xtn, w/ few scattered p.p. vugs, very poor porosity. With xtn gyp incls. & black carbonaceous inclusions.
- 2187-87 $\frac{3}{4}$  Mottled lt. gray v.f. xtn dol. & gray anhydrite w/ 3" black carbonaceous, platy shale at top.
- 2187 $\frac{3}{4}$ -88 $\frac{1}{2}$  shale, black, carbonaceous, dolomitic, platy.
- \* 2188 $\frac{1}{2}$ -89 Dol, lt. greenish-gray, v.f. xtn, slightly cherty & argill. micaceous, no vis; *Erumpella foot?* w/ small xtn gyp inclusions.
- \* 2189-90 A.A. w/ greenish-gray sh. laminae
- \* 2190-91 A.A. w/ more shale laminae
- \* 2191-92 A.A.
- \* 2192-93 A.A. except. more shale laminae
- \* 2193-94 A.A. Becoming very shaly & with anhydrite nodules.
- 2194-95 shale, med. gray, dolomitic, platy
- 2195-96 shale, dk gray, dolomitic, blocky
- 2196-97 shale A.A.
- 2197-98 shale A.A. w/ some lt. gray v.f. xtn dolomite laminae
- 2198-99 shale as at 2195-96
- \* 2199-2200 Dol, med gray, v.f. xtn, slightly cherty & argill. <sup>micaceous</sup> No. vis  $\phi$
- \* 2200-01 A.A.
- \* 2201-02 A.A.
- \* 2202-03 A.A.
- \* 2203-04 A.A.
- \* 2204-05 A.A.
- \* 2205-06 A.A.
- \* 2206-07 A.A.
- \* 2207-08 A.A.
- \* 2208-09 A.A. except slightly coarser xtn, clean & w/ few scattered small vugs  
 poor porosity

Aspen No. 1-14 Buckman  
Core No. 1 - Cont'd

Microscopic Description

- \* 2209-10 Dol as at 2208-09 except <sup>limy</sup> slightly better porosity, & with few scattered anhydrite nodules, & w/ small xtn gyp inclusions.
- \* 2210-11 Ls, dolomitic, fragmental, fossiliferous, (recognizable fossils are ovoid stem plates) f. xtn, matrix, cherty & argill. w/ scattered anhydrite nodules & small xtn gyp incls. Few scattered small vugs - poor porosity.
- \* 2211-12 A.A. except more fossiliferous, less dolomitic, more cherty & argill. Poor vuggy porosity.
- \* 2212-13 As at 2211-12
- \* 2212-13 " " " "
- \* 2213-14 " " " "
- \* 2214-15 " " " "
- \* 2215-16 " " " " except very poor porosity - only few scattered small vugs
- \* 2216-17 As at 2215-16
- \* 2217-18 " " " "
- \* 2218-19 " " " "
- \* 2219-20 " " " " - Porosity negligible
- \* 2220-22203 Sh. gray, dolomitic, blocky

Town Winfield

22 37  
22 01  
36

Aspen Drilling Co. No. 1-74 Buchanan

Core No 2 - 2233 - 2275 Full Recovery

Visual Description **Bill Little Geologist**

- 2233-36.8 Shale, pred. red w/ some green mottling & becoming pred green @ base
- 2236.8-40 1/2 Oil, lt. gray, cherty w/ 2" black carb. platy sh. @ 36.2 & with chert nodules & thin bands starting @ 39.6. Stylolite @ 40.7. No pitting.
- 2240 1/2-52 Oil, med. gray <sup>cherty</sup> no pitting, large zony. nodules starting @ 49 1/2
- 2252-57 1/2 Ls, med gray sli foss slight pitting on exterior  
Anky. nodule @ 52 1/2-53
- 2257 1/2-58 1/2 Becomes more foss. & pred ext. pitting
- 2258 1/2-61.8 Ls, buff & gray mottled, whitiz & rhentic, good exterior pitting
- 2261.8-70 Ls, gray, foss. Fair to good exterior pitting.
- 2276-73.4 Ls, gray, cherty no pitting
- 2273.4-75 Shale. 3" streak green platy shale @ top w/ lt. & dark gray laminated shale for remainder

Jack Goode

Home: 405-794-5955 -

Analysis	2237-	25 - 13	Every other foot
	2262-70	8'	Every foot
	2270-74	4 - 2	Every other foot
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		23	Samples Total

Aspen Drilling Co. No. 1-14 Buckman

Core No. 2 - Winfield - 2233-2275 cut and Recovered 42'

- 2233-34 Shale, dolomitic, predominantly brownish-red w/ some grayish-green mottling, blocky
- 2234-35 A.A. w/ increase in grayish-green shale
- 2235-36.8 Shale, dolomitic predominantly grayish-green w/ some brownish-red mottling, blocky
- 2236.8-38 Dol, lt. gray, earthy, cherty w/ small xtn gypsum inclusions. No visible porosity.
- 2238-39 Dol, <sup>limy</sup> buff, v.f. xtn, micaceous, no visible porosity. With 2" streak of grayish green dolomitic blocky shale @ 38.2
- 2239-40 Dol A.A. w/ nodules of lt. gray opaque chert starting @ 39 1/2
- 2240-41 Dol. <sup>chart</sup> A.A. but slightly coarser-xtn but cherty matrix. with stylolite @ 40.7
- 2241-42 Dol. & chert A.A. w/ some small xtn gyp incls.
- 2242-43 A.A.
- 2243-44 Dol, limy, <sup>lt. gray</sup> v.f. xtn to earthy, cherty, slightly argill, <sup>& micaceous</sup> no visible porosity,
- 2244-45 A.A. w/ lt. gray opaque chert nodules
- 2245-46 Dol, w/ chert incls. A.A. w/ parts darker gray & more argill
- 2246-47 Dol, limy, lt. & med. gray mottled, v.f. xtn w/ cherty matrix, argill, <sup>& micaceous</sup> some dk y. to black small inclusions. Some small amount of smoky chert in veins & s. small xtn gypsum inclusions.
- 2247-48 Limy dol. as above without chert but w/ some white soft, waxy material on fracture face (gypsum?)
- 2248-49 Limy dol. A.A. w/ chert nodules & trcs. of white material as at 2247-48
- 2249-50 Limy dol. A.A. without chert but with scattered large anhy. nodules. Becoming very cherty & argill.
- 2250-51 A.A. w/ trcs. fossil frags.
- 2251-52 Ls, lt. gray, sparsely fragm. foss w/ very cherty matrix. and w/ black carbonaceous incls. No visible porosity
- 2252-53 Ls A.A. w/ one large anhy. nodule & w/ more foss. frags.
- 2253-54 A.A. w/o anhydrite
- 2254-55 A.A.
- 2255-56 A.A. w/ stylolite
- 2256-57 A.A.
- 2257-58 A.A. except slightly cleaner & w/ trcs. small waxy porosity - very poor porosity

Cont'd

Ag. 1 on Nov-1-14 Buckman  
Core No. 2

Microscopic Description

- 2258-59 Ls, buff w/ some gray argill mottling, oolitic. Possibly some oolite  
small vuggy porosity
- 2259-60 As above w/ large xth calcite inclusions
- 2260-61,8 A.A becoming more oolitic & cherty & less oolitic at base.
- 2261.8-63 Ls. lt. and dark gray mottled, (much dark gray carbonaceous material usually in form  
of pellets - algae?) fragmental, fossiliferous, cherty, argillaceous. Traces  
scattered small vugs. Very poor porosity. Some small xth qtz inclusions.
- 2263-64 A.A. w/ poor to fair porosity
- 2264-65 A.A. w/ some fair porosity
- 2265-66 A.A. w/ slightly better porosity - still only fair porosity - Less black  
carbonaceous material.
- 2266-67 As at 2265-66
- 2267-68 " " " "
- 2268-69 " " " "
- 2269-70 Ls. lt. gray, very fine xth, only traces. small vugs.
- 2270-71 A.A. w/ few foss. frags & becoming argill. No porosity
- 2271-72 A.A. No porosity
- 2272-73.4 A.A. No Porosity
- 2273.4-75 Shale & laminated dol & shale; 3" grayish-green dolomitic, black shale  
at top w/ laminated lt. gray vit. xth dol & gray dolomitic shale  
⊙ base