

Approx.

DRILL HOLE LOG - FERROUS

LAT. +8,350N ANGLE -70° MINE Sunrise, Platte County, Wyoming
 DEP. -1,250W BEARING East LOCATION Reese No. 10 E½ NW¼ SW¼ Sec. 31, T28N, R65W
 ELEV. 5,120 USGS LEVEL Surface HOLE NO. DDH No. 439

Driller Longyear (Ruh) / Longyear 38

core recovery 98.8%

Core is HB byack

no analysis

DATE 1974	DRILLED		FEET	CORE		MATERIAL	REMARKS
	FROM	TO		FT.	10ths		
						Lat. Dep.	
						130.4' North of SE Corner Reese 10; 318.9' West	Banding to axis of core.
						of SE Corner Reese 10; Elev. 32' above SE	
						corner Reese 10.	
4-8	Moving.						
4-9	0	5	5	0	5	0-180 Hartville formation.	
						0-6 Surface soil and boulders of limestone.	Drilled with NX casing bit
	5	12	7	5	0		60° at 10.
	12	18	6	6	0	6-9 Light gray limestone with dark gray chert	NQ core.
						in fractures.	
	18	23	5	5	0	9-12 Light green to gray limestone with maroon	
						clay banding.	
						12-14.5 Hematitic clay with limestone fragments.	
						Estimated 20 percent Fe.	
4-10	23	28	5	5	0	14.5-106 Light gray limestone with hematitic	
						clay seams at 20-20.5, 22.3-22.4, 25.8-76.0,	
	28	32	4	4	0	32.8-33.0. Numerous maroon clay seams from	
						47-50.	
	32	42	10	10	0	Maroon hematitic clay seams at 67.5-67.8,	70° at 41.
	42	52	10	10	0	68.8-68.9, very styalitic.	
	52	62	10	10	0		
	62	72	10	10	0		80° at 64.
4-11, 12, and 13	weather delay.						
4-15	72	82	10	10	0		Set NX casing to 20 ft.
	82	92	10	10	0		
	92	102	10	10	0		
	102	112	10	10	0	106-168 Thin bedded, red and pink quartzite.	Bedding apparently near
	112	122	10	10	0	Very cross bedded. Many small slippages shown	90°.
	122	132	10	10	0	by bedding displacement, mostly less than one	
4-16	132	142	10	10	0	inch. Hematite fills a few fine fractures.	
	142	152	10	10	0		
	152	162	10	10	0		
	162	172	10	10	0		
	172	182	10	10	0	168-173 Breccia. Quartzite fragments in silty,	
						limy, hematitic matrix. Many slickensides.	
						173-180 Quartzite, medium grained, maroon,	
						with green spots.	

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ELEV.	5,120 USGS		LEVEL		Surface		HOLE NO.		DDH No. 439	
DATE 1974	DRILLED			CORE			MATERIAL	REMARKS		
	FROM	TO	FEET	FT	10ths					
						180-336.4 Guernsey formation.		Banding to axis of core.		
4-17	182	192	10	10	0	180-181 Hematitic shale.		45° at 195.		
	192	202	10	10	0	181-262 Intraformational limestone, breccia				
	202	212	10	10	0	with narrow beds of nonbrecciated limestone.		70° at 205.		
	212	222	10	10	0	Breccia fragments are gray, buff, and pink;				
	222	232	10	10	0	cryptocrystalline. Matrix is cryptocrystalline				
	232	242	10	10	0	to very coarse crystalline and mostly buff to				
4-18	242	252	10	10	0	pink. Vuggy with calcite crystals in vugs.				
	252	262	10	10	0	Hematite filled stylolites are prominent.		60° at 258.		
	262	272	10	10	0	262-308 Limestone, fine crystalline (predom-				
	272	282	10	10	0	inantly grain size is about 1 millimeter).				
	282	292	10	10	0	Mostly pinkish with some buff and gray beds.		70° at 285.		
	292	302	10	10	0	Some narrow cryptocrystalline beds. Many		70° at 300.		
4-19	302	312	10	10	0	hematite-stained stylolites. The interval				
						around 285 shows cracked bedding and narrow beds				
						of flat pebble conglomerate.				
	312	322	10	10	0	308-336.4 Limestone, cryptocrystalline, gray,		70° at 322.		
	322	332	10	10	0	maroon, and pink. Hematite filling fractures				
						and stylolites.				
	332	342	10	10	0	336.4-367 Hematitic, muscovite quartz, chlor-		Precambrian at 336.4.		
	342	352	10	10	0	ite schist. Some quartz bands up to a foot		Schistosity is 70° at		
	352	362	10	10	0	or so wide. Individual mica flakes are up to		340; 50° at 354.		
						several millimeters in diameter. Specularite		50° at 360.		
						fracture filling in quartz band at 367.				
						Hematite staining varies from heavy to light.				
4-20	362	372	10	10	0	367-392 Quartz, sericite phyllite. Light		Schistosity 45° at 368.		
	372	382	10	10	0	silvery gray. Quartz bands up to 1 foot wide.				
	382	392	10	10	0	Limonite pods and fracture filling. Some bands		50° at 388.		
						of hematitic, muscovite, quartz, chlorite				
						schist. Schistosity is very contorted.				
	392	402	10	10	0	392-405 Dolomitic, quartz, chlorite schist.		45° at 400.		
						Perhaps 30 percent of rock is hematitic dolo-				
						mite interspersed between chlorite grains.				
						Chlorite flake size is up to several milli-				
						imeters. The interval from 398-401 contains				
						some prismatic minerals (probably amphiboles)				

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DATE	DRILLED			CORE	REMARKS		
1974	FROM	TO	FEET	FT. 10ths			
					Banding to axis of core.		
					which are only roughly lineated into the schistosity. These prismatic minerals are partially replaced by hematite.		
					405-411 Schistose dolomite. Cryptocrystalline dolomite with closely spaced chlorite schist laminae. Dolomite is pinkish colored.		
	402	412	10	10	0	411-426 Quartz, sericite schist. About 30	
	412	422	10	10	0	percent quartz bands up to several inches wide. Silvery gray.	
4-21	To Medicine Bow, Wyoming, for equipment.						
4-22	422	432	10	10	0	426-440 Chloritic, quartz dolomite. Pink to	
	432	442	10	10	0	red dolomite with chlorite laminae and quartz	
	442	452	10	10	0	bands.	
	452	462	10	10	0	440-490 Chlorite, quartz, dolomite, sericite,	60° at 458.
	462	472	10	10	0	schist. Silvery gray sericite interlaminated	60° at 472.
	472	482	10	10	0	with red dolomite. Some quartz bands and pods.	
4-23	482	492	10	10	0	Limonite and some hematite staining in frac-	
	492	502	10	10	0	tures.	
	502	512	10	10	0		
	512	522	10	10	0		
	522	532	10	10	0	529-580 Dolomite, gray to pink, cryptocrystal-	
	532	542	10	10	0	line, many fine (about 1/4 millimeter) partings	
	542	544	2	2	0	of sericitic chloritic schist. Some laminae,	Core orientation test,
	544	552	8	8	0	(about 1 to 2 millimeters) of sericitic chloritic	542-544.
4-24	552	562	10	10	0	schist. Many quartz bands up to 2 centimeters	60° at 562.
	562	572	10	10	0	wide. Quartz bands are often bordered by fine	
	572	582	10	10	0	crystalline dolomite. Some of the schistose	70° at 582.
						partings are slightly hematite stained.	
	582	592	10	10	0	580-600 Dolomite, grayish pink. Some hematite	70° at 592.
	592	600	8	8	0	and limonite staining in fractures and along	80° at 600.
						bedding lamina.	
	END OF HOLE AT 600.						
	Core checked with scintillation counter with						
	negative results.						
4-27	Moved rig to Garnersey. Left 20 ft NX casing for stand pipe.					Hole capped.	

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DATE 1974	DRILLED		CORE		MATERIAL	REMARKS
	FROM	TO	FEET	FT.		
					HOLE SURVEYS	
					200 ft - uncorrected 74.5°; corrected 70°.	
					544 ft - uncorrected 81°; corrected 78°.	
					CORE ORIENTATION	
					Core orientation at 542-544 ft. Hole inclination 81° uncorrected; 78° corrected. Tube reference line 84° clockwise from top of tube. Lower apex of banding 320° clockwise of reference line. Banding 60° to axis of core.	
					Estimated Stereonet	
					Strike Dip Strike Dip	
					N-S 20°E N70°E 22°S20°E	

App. 1
 555' W
 123' W
 512.5 USG ELEV.

DDH 433

Hartville Fm.

Guernsey Fm.

Hematite stained chlorite schist.
 Sericite Phyllite. Some hematite stain.
 Schistose dolomite

Dolomite

Core Orientation
 Depth 544 ft. Strike N. 70° E. Dip 22° S. 20° E.

Dip similar to DDH 435

200 ft

600 ft

700 ft

As for 434

