

RESPEC
RAPID CITY, SD

CORE LOG DATA SHEET

CORE RUN # _____
PAGE ____ OF ____

10-6-2014

SITE _____

CORE BARREL LENGTH _____

CORE BARREL DIAMETER _____

TOP CORE INTERVAL _____

BOTTOM CORE INTERVAL _____

LENGTH CORED INTERVAL _____

RECOVERY _____

TIME RECOVERED _____

DATE RECOVERED _____

RUN RQD _____

LOGGED BY _____

Depth	Interval		Lith	RQD	Description
	From	To			
53					Grey shale with silty (bentonite?) thin (~2mm) layers at top of core. many partings showing dip (parallel to bedding). very laminated, well indurated,
54					Grey shale - took PSS-54 from very top of core; fossil at 305.25' Inoceramus at 305.5'; small brown encrustation at 306.75'; finely laminated, non calcareous matrix; Bentonite (2" thick) at bottom of core. NO dip on bedding. Inoceramus hash at 307'.

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CCRE RUN # _____
PAGE ____ OF ____

SITE Presho
CORE BARREL LENGTH _____
CORE BARREL DIAMETER _____
TOP CORE INTERVAL _____
BOTTOM CORE INTERVAL _____
LENGTH CORED INTERVAL _____

RECOVERY _____
TIME RECOVERED _____
DATE RECOVERED 10/7/14
RUN RQD _____
LOGGED BY Amy Freye

Depth	Interval		Lith	RQD	Description
	From	To			
PSS (55) (55) shoe sample from top of core	309	314	Black shale	53" 4' 5"	Shell fragments @ 309' 8", 310' 5", 312' 7", 314' 4" N2-N3 Med-dark gray grayish orange (10YR 7/4) @ 311' 2" very well indurated No dip entirely noncalcareous (except for shells)
shoe sample from 56 top	314	319	Black shale	54" (10' 4' 6")	Bentonite @ 315', 318' 1" (thin) N2-N3 Med-dark gray shell bed @ 319' very well indurated slight dip @ 318' south (1-2°) thin laminae (tan-calcareous) throughout top 314' - 314.5'
dropped core wooden marker (57) indicate section changed bit	319	324	Black shale	68"	from 322' 2" - 322' 8" N2-N3 Med-dark gray grayish orange bentonite @ 323' 6" No Dip
			Black shale		
(58)	324	329	Black shale	44" 3' 8"	N2-N3 Med-dark gray @ 10" & 21" Bentonite layers (thick 2.5" w/ concretions) Non calcareous - slightly in 10YR 7/4 layers throughout core Shell fragments throughout,
59	329	334	Black shale	55" 4' 4"	N2-N3 Med-dark gray bentonite 10YR 7/4 @ 330' Poor core recovery @ 332' Noncalcareous Shell fragments throughout NO Dip

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CORE RUN # _____
PAGE ____ OF ____

SITE Presno
CORE BARREL LENGTH _____
CORE BARREL DIAMETER _____
TOP CORE INTERVAL _____
BOTTOM CORE INTERVAL _____
LENGTH CORED-INTERVAL _____

RECOVERY _____
TIME RECOVERED _____
DATE RECOVERED 10/8/14
RUN RQD _____
LOGGED BY _____

Depth	Interval		Lith	RQD	Description
	From	To			
(60) sample from top Not shoe	334	339	Black shale	41" 3' 5"	N2-N3 Med-dark gray shale shell fragments throughout @ 336' concretion Bentonite @ 339' (1.5") Non calcareous, No dip, very well indurated
(61)	339	344	Black shale	54" 4' 6"	N2-N3 Med-dark gray, poor recovery @ 343.5' shell fragments @ 341.5', 340.5' Disking @ 339-340' No Dip, Noncalcareous (All), No Bentonite
62 sample from top	344	349	Black shale	60" 5'	@ 346' Limestone circular, followed by irregular layers, then small bentonite. - burrowing? @ 345' + 347' N2-N3 Med-Dark gray - light gray 'wisps' @ 344-345 well indurated, Non calcareous, No Dip shell fragments throughout
(63)	349	354	Black shale	62" 5' 2"	Non calcareous No Dip light gray 'wisps' throughout shell fragments throughout Bentonite (very non calc.) 350' @ 3" thick N2-N3, very light gray well indurated N2-N3 med dark gray @ 350 (before bentonite) there is a shale bed. @ 354, tan wedge siltstone
(64) No shoe sample	354	356	Black shale	1.5' 17.5"	N2-N3 Med-dark gray No dip, Noncalcareous shell fragments throughout gray 'wisps' after 355'

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CORE RUN # _____
PAGE **OF** _____

SITE Presho

CORE BARREL LENGTH _____

CORE BARREL DIAMETER _____

TOP CORE INTERVAL 356 ft.

BOTTOM CORE INTERVAL 359 ft

LENGTH CORED INTERVAL _____

RECOVERY _____
TIME RECOVERED 9:22 a.m. #65
DATE RECOVERED 10/9/14
RUN RQD _____
LOGGED BY J.F. Sawyer

Core #	Depth	Interval		Lith	RQD	Description
		From	To			
65		356	359		41" 3'5"	No core, fishing, (no core), fish + redrill (41 inches) Medium dark gray (N3), hard, waxy, noncalcareous, inoceramus shells distributed throughout the whole core.
	1ft					@ 8" from top, worm burrow? (pale yellowish brown 10 YR 6/2, slightly calcareous)
	2ft					Slightly more fossiliferous from ≈ 6"-14" from top. + ≈ 28"-36" from top.
	3ft					More fissile @ 8"-14" + 28"-30" from top. * PSS-65 taken from shoe (at bottom of core sample), Horizontal bedding. No bentonites

CORE RUN # 66
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RECOVERY _____
TIME RECOVERED 11:15 a.m.
DATE RECOVERED 10-9-14
RUN RQD _____
LOGGED BY J.F. Sawyer

Depth	Interval		Lith	RQD	Description
	From	To			
0	359	364	58.5 inches		Collected shoe sample PSS-66 from bottom of sample
			4'10.5"		Grayish black shale (N2), slightly waxy, noncalcareous
					Bentonite is medium gray (N5)
1'					Bentonite @ 13.5" - 13.75" 0.25 inches thick
					Bentonite @ 14.5" - 16" (1.5 inches thick) dipping slightly
					Bentonite @ 37" - 38" (1.0 inch thick)
2'					Bentonite @ 41.5" - 42" (0.5 inch thick)
					Fossil fragments (small) scattered throughout the core sample
3'					Fissile shale between bentonite layers @ 14.5" - 15.0"
					General quality of core sample is excellent
4'					