

RESPEC
RAPID CITY, SD

CORE LOG DATA SHEET

CORE RUN # _____
PAGE ____ OF ____

9-23-2014

SITE Presko
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	Recoverd RQD	Description
	From	To			
Core 26 179'				45" (3.75')	Very well indurated gray shale; matrix color is N4; abundant shell material - Some with clear outline of J; color of shell is moderate orange pink 5YR 8/4
Core 27 184'				77" (6.4')	Very good Core but longer than the drilled interval so probably picked up some Core from previous short run. Excellent Core quality shows no evidence of plastic elongation. shale matrix color N3; shell material towards top of core; no calcareous matrix; irregular bentonite at 180.5'; 1" thick grey (silty?) bentonite at 183.5'; shell at 182.1 and 182.5'
Core 28 189'				47" (3.9')	Gray shale with non-calcareous matrix; well indurated - very hard; matrix color is N4; Brownie, non-calcareous, round, tubular feature at 185.4'; 3" thick bentonite at 187' (5Y 8/1); 1/2" thick silty (?) layer at 188.3' (color is N8); small amount of disseminated small pyrite (probably) in top two feet of core. Core cracking obvious but some cracks bleed water.

CORE RUN # 29
PAGE OF

SITE Presho
CORE BARREL LENGTH _____
CORE BARREL DIAMETER _____
TOP ~~CORE~~ INTERVAL bH @ 189 feet (ft) (?)
BOTTOM CORE INTERVAL 194 ft.
LENGTH CORED INTERVAL 69.5 inches

RECOVERY _____
TIME RECOVERED 1130
DATE RECOVERED _____
RUN RQD _____
LOGGED BY J.F. Sawyer

Depth	Interval		Lith	RQD	Description
	From	To			
189 ft				↑ 69.5 inches	Grayish black (N2) shale, non calcareous, no bentonite, no concretions, finely laminated, well indurated, "disking" every 4-10 inches, Excellent returns, no obvious macrofossils , pelecypod at top of core
190				↓	
191					
192					Pretty uniform color, lithology, composition for this whole sample. Recovered 69.5 inches (9.5 inches from previous sample?). Appears to be pretty good recovery.
193					[core from $\approx$ 188-194] (*) Bit @ 189-194
194'					* sample from shoe. ($\approx$ 1" thick) # PSS 29
					69.5 - 17.0 52.5 52.5 inches in one PVC tube 17.0 inches went into the next tube with core #30.

recovered $69'' \frac{1}{2}'' = 5' 9 \frac{1}{2}''$ (9.5" from previous sample?)

CORE RUN # 30
PAGE OF

RECOVERY _____
TIME RECOVERED 12:15 - 12:30
DATE RECOVERED 9-24-14
RUN RQD _____
LOGGED BY J.F. Sawyer

Bt interval 194-199' feet

Recovered
53 inches of core = 4 ft 5 inches

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CORE RUN #

PAGE OF

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 _____

9-24-2014

Depth	Interval		Lith	RCD	Description
	From	To			
199				1' 11"	massive grey shale; noncalcareous; no shell; no bentonite; slightly fissile towards bottom
(31)					
201					Note: Driller says bit ended at 200 feet rather than 201 ft, even though 2 feet of core was in the the core barrel.
					Note depths on samples (revised)
					199-200

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CORE RUN # _____
PAGE **OF** _____

SITE Presho
CORE BARREL LENGTH _____
CORE BARREL DIAMETER _____
TOP CORE INTERVAL (Bit) 200 feet
BOTTOM CORE INTERVAL (Bit) 204 feet
LENGTH CORED INTERVAL 50 inches recovered

RECOVERY 50 inches
TIME RECOVERED 1410
DATE RECOVERED 9-24-14
RUN RQD _____
LOGGED BY J.F. Sawyer

Depth	Interval		Lith	RQD	Description
	From	To			
200'			 50.5 inches		Dark gray shale, wet color = N3, dry color = N4, Non calcareous, finely laminated, rare calcareous fossil layers or laminae (calcareous), occasional horizontal, bifurcating fractures
201'					
202'					
203'					
204'					PSS-32 lightly calcareous, lighter gray, bentonitic, silty shale, } protruding from shoe. crystalline texture lining up from bottom of sample, vertical fractures, voids, color = N4-N5
50.5" Core					collected sample# PSS-32 from bottom of core (above shoe) 204 - 2 ----- 202'

200'-204' bit interval 50.5 inches
~~50~~ inches of core (4 ft 2 in)

RAPID CITY, SD

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LENGTH CORED INTERVAL _____

LOGGED BY _____

1700 hrs.

Depth	Interval		Lith	RQD	Description
	From	To			
0					gray shale top 2" are silty grey (585)
59					Grayish black NZ for matrix; very well indurated;
104R 6/2					1/4" bentonite (104R 6/2) at 59-32"
38 to 43					thick bentonite (38 to 43) α-59" 104R 6/2, the bentonite has a very thin (~1/8") calcareous layer.
209					