

C.C.C. cyt

New Mexico, Sandoval County
Royal Development Inc.
Roy M. Eidal - Federal 1-P
7-20N-3W

Core Description

Core #1

2926'-2936'. Cored 10 ft. Rec. approx. 7' shale-silt-sand all loose bleeding oil.

- 4' Brn gray soft silty shale; f to med, subr to rnd micaceous clayey qtz sand; Brn gray sandy clayey shale.
- 2' F to med, subrnd to rnd oil saturated clayey qtz ss. High interstitial clay content. Relatively unconsolidated.
- 1' Clayey silty sand w/no porosity visible and high clay content.

Core #2

2936'-2941'. Cored 5 ft. Recovered 6'3". Barrel Flared.

- 1' Clayey silty sand with stringers of carbonaceous shale.
- 1' Interbedded shale, siltstone, and tight quartzitic ss.
- 2'6" Lt. gray argillaceous ss. oil stained and oil bleeding with maximum fluorescence.
- 1'9" Interbedded siltstone and shale and ss. Sandstone gray tight well cemented; Shale dark gray. Trace of fluorescence in ss.

Core #3

2941'-2946'. Cored 5'. Recovered 5'. No Flare.

- 9" Gray v.f.gr. limy clayey siltstone. Tr. fluorescence externally.
- 2' Dark gray to black slickensided shale.
- 1' Green hard siliceous clayey siltstone.
- 1'3" Dark gray to black slickensided shale.

Core #4

2946'-2955'. Cored 9'. Rec. 2'. No Flare.

- 6" Gray green carbonaceous shale.
- 1' Lignitic coal
- 6" Gray siliceous siltstone. Tr. fluorescence on outside H₂S odor.

Core #5

2955'-2960. Cored 5'. Rec. 5'. No Flare. No Fluorescence.

- 2'6" Gray v.f. gr. tightly cemented clayey ss.
- 2'6" Drk gray very hard siliceous shale grading into clayey siliceous siltstone.

Core #6

2960'-2970'. Cored 10'. Rec. 9'. No flare. No Fluorescence.

- 1' Very dark gray siliceous claystone grading into siliceous siltstone.
- 1' Greenish f. gr. silty clayey dense ss.
- 1' Drk gray to black micaceous silty claystone.
- 0'8" Greenish gray clayey siltstone. Fossiliferous.
- 3' Dark gray to black carbonaceous shale
- 2'4" Brown and black splintery shale.

Core #7

2970'-2975. Cored 5'. Rec. 5'. No Flare. No Fluorescence.

- 1' Gray sandy siltstone
- 6" Gray siltstone
- 1' Interbedded ss. and siltstone.
- 1'6" Interbedded shale and silty shale.

Core #8

2975'-2985'. No Flare. No Fluorescence.
6" Gray shaly sandstone
1' 8" Gray sandy sh and ss.
2" Carbonaceous and shaly ss.
2" Silty ss. finely veined.
9" Black silty shale.
1' 3" Gray v.f.gr. tightly cemented slightly limy ss.
1" Fine veined silty ss.

Core #9

2985'-2990'. Cored 5'. Rec. 5'. No Flare. No Fluorescence.
2' 6" Dark gray v.f. siliceous ss grading into a dark gray and black siltstone.
2' 6" Dark gray and black micaceous silty claystone.

Core #10

2990'-2997'. Cored 7'. Recovered 6'. No Flare. No Fluorescence.
4' Very dark gray siliceous micaceous siltstone.
2' Green gray siliceous clayey ss. with clay interbeds.

Core #11

2997'-3000'. Cored 3'. Rec. 1'. No Flare. No Fluorescence.
1' Greenish gray f.gr. subang. clayey silty ss. Sandstone had $\frac{1}{2}$ inch rounded dark gray siltstone pebbles within. Sedimentary breccia. Upper portion of recovery had subround shale pebbles from $\frac{1}{4}$ to $\frac{1}{2}$ inch in diameter imbedded in ss.

Core #12

3000'-3005'. Cored 5'. Rec. 5'. No Flare.
3' Greenish gray siliceous claystone-very hard; two 6" streaks of f to med. subang. qtz ss with clay and slightly limy content. No Fluorescence.
2' Fine to med. subang to subrnd limy ss with high Fluorescence.

Core #13

3005'-3010'. Cored 5'. Recovered 5'.
5' F to med subrnd to rnd micaceous ss. with high clay content. Highly fluorescent at 3005 and 3006 feet. Approximately half of core shows interbedded fluorescent sand and non-fluorescent tight sand; very slightly limy containing rounded black shale fragments.

Core #14

3010'-3012'. Cored 2'. Recovered 2'. No Flare. No Fluorescence.
2' Dark gray carbonaceous hard shale.

Core #15

3146'-3151'. Cored 5'. Rec. 5'. No Flare
5' F to med, subrnd micaceous garnitic qtz ss oil stain and high fluorescence between 3147 and 3150. Slightly limy. Abundant clay cement. Shale stringers in lower foot.

Core #16

3151'-3156'. Cored 5'. Rec. 5'. No Flare.
8" Black sandy shale.
4' 4" Sandstone as in previous core but with less clay cement.

Core #17

3156'-3161'. Cored 5'. Rec. 3' 4". No Flare. No Fluorescence.
3' 4" F to med. subrnd micaceous qtz ss with increasing liminess from top to bottom.

Core #18

3161'-3168'. Cored 7'. Rec. 9' 2". No Flare. No Fluorescence.
9' 2" Very limy ss. as in previous core.

Core #19

3169'-3178'. Cored 10'. Rec. 7'. No Flare. No Fluorescence.
7' Lt. gray, f to med gr., qtzitic limy ss.

Core #20

3179'-3188'. Cored 10'. Rec. 9'. No Flare. No Fluorescence.
9" Poker chip gray silty sandstone.
9" Dark gray and black silty micaceous ss.
1'5" Black shale
7'4" Dark gray silty micaceous ss.

Core #21

3189'-3198'. Cored 10'. Rec. 9'8". No Flare. No Fluorescence.
7' 3" Gray v.f. gr. silty limey micaceous ss.
9" Dark gray green slightly limy micaceous shale with carbonaceous inclusions.
1'8" Dark gray v.f. gr. highly carbonaceous and micaceous slightly limy ss. grading into a gray v.f. gr. silty limy ss.

Core #22

3199'-3205'. Cored 7'. Rec. 3". No Flare. No Fluorescence.
3" Sandstone as in previous core; very friable.

Core #23

3206'-3207'. Cored 2'. No Recovery.

Core #23-A

Rec. 1' from inner barrel after coming out of hole.
6" Dark gray micaceous silty and limy ss grading into a micaceous sandy siltstone.
6" Dark gray green micaceous shale.

Core #24

3215'-3220'. Cored 5'. Rec. 4'. No Flare. No Fluorescence.
3" Dark gray v.f. gr. hard silty micaceous slightly limy ss. with carbonaceous inclusions.
15" Gray v.f. hard silty very limy ss.
8" Dark gray shale with micaceous inclusions, very slightly limy.
1'10" Gray v.f. gr. silty micaceous ss.

Core #25

3220'-3229'. Cored 9'. Rec. 8'. No Flare. No Fluorescence.
16" Gray v.f. gr. silty micaceous slightly limy ss.
8" Interbedded black shale and dark gray to blk carb micaceous silty ss.
4'9" Gray v. f. gr. silty micaceous ss.
3" Interbedded blk sh and drk gray ss
8" Gray v. f. gr. silty micaceous ss.
4" Interbedded shale and ss as above.

Core #26

3230'-3237'. Cored 8'. Rec. 8'3". No Flare Fluoresced 1' at 3235'.
2" Black claystone
7" SS with f micaceous siltstone interbedding.
4' Greenish gray v.f.gr. limy ss.
1' SS as previous with fluorescence.
4" Greenish black carbon micaceous sh
2'2" SS as above.

Core #27

3238'-3245'. Cored 8'. Rec. 6'. No Flare. No Fluorescence.
1' Hard calcareous ss.
4" Black shaly claystone
1'2" Clayey limy ss with v. thin shale interbedding.
3'6" SS with black and gray shale interbedding.

Core #28

3245'-3252' . Cored 7'. Rec. 6'6". No Flare. No Fluorescence.
6'6" Greenish gray, f. gr. porous glauconitic qtz ss with
tr. of mica & lime.

Core #29

3249'-3257' Cored 8'. Rec. 5'. No Flare. No Fluorescence.
5' Gray green highly calcareous qtz silty clay with $\frac{1}{2}$ to
1 inch interbeds of f. gr. clayey ss.

Core #30

3257'-3265' Cored 8'. Rec. 8'. No Flare. No Fluorescence.
2'9" 2'9" section marks base of Hosta. Greenish calcareous
v.f. silty ss.
1' Greenish gray shaly siltstone.
4'3" Dark gray hard silty shale; with thin interbeds of greenish
gray siltstone.

Core #31

3265'-3273' Cored 8'. Rec. 3'.
1' Dark gray v. hard silty claystone.
2' Dark gray highly clayey siltstone with thin v.f. tight
ss interbeds. Highly fluorescent.

Core #32

3273'-3278' Cored 5'. Rec. 5'. No Flare. No Fluorescence.
2' V. dark greenish gray siliceous claystone.
3' Dark green gray, very hard v.f.gr. clayey siltstone and
sandstone.

Core #33

3279'-3286' Cored 8'. Rec. 3'. No Flare. No Fluorescence.
1' Gray v.f.gr. micaceous ss interbedded with green gray shale.
8" Black silty claystone (Marsh gas odor.)
1'4" Gray very hard f. gr. silty ss with claystone interbeds.

Core #34

3286'-3291' Cored 5'. Rec. 6'. No Flare. No Fluorescence.
6' Dark greenish black shale with sporadic interbeds of
gray v.f.gr. silty ss.