

LITHOLOGIC DESCRIPTION OF SAMPLES SUBMITTED FOR ASSAY^{1/}

Core samples from the U.S. Bureau of Reclamation's Seedskaadee Development
Farm No. 1 well drilled in NW1/4NE1/4 of sec 5, T 22 N, R 110 W,
Sweetwater County, Wyoming

Described section: 25 to 229 feet

From	To	Description
25.0	70.4	Sandstone, siltstone and mudstone: Light to medium olive-gray and greenish-gray (7.5Y to 10BG 8/2-4/1; some 5Y 7/3-6/3 near top), very calcareous. Faint irregular to smooth bedding and some massive. Weathered near top; some orange to brown stained fractures.
70.4	77.0	Mudstone and siltstone: Light to medium gray (6-4.5N), calcareous. Faint irregular bedding with some very irregular laminations, stringers and streaks. Regular to very irregular, medium to thick shaly parting; irregular to slightly conchoidal fracture.
77.0	82.9	Mudstone and siltstone: Light to medium and rare dark gray (6-4N, rare 3N), calcareous to dolomitic. Faint irregular bedding to very irregular laminations. Irregular thick shaly to some papery parting; irregular to hackly fracture. Some olive gray marlstone near base.
82.9	87.4	Marlstone and oil shale: Medium to some dark olive gray (5Y 5/2-4/2, some 3/2). Smoothly laminated; very common fine buff streaks. Very regular thick shaly to papery parting; hackly fracture. Very common ostracods on parting surfaces. A 3/4-inch colorless fibrous calcite band at 85.1 feet; a 2-inch colorless to very pale yellow, fibrous to prismatic calcite band at 86.4 feet. Sample of thick prismatic calcite band from 86.4 feet: X-ray - calcite.
87.4	88.4	Marlstone and limestone: Medium to dark olive gray (7.5Y 5/1-3/1). Smooth to slightly irregular and distorted laminations and some very faint bedding. Regular to slightly irregular, medium to thick shaly parting; smooth to irregular fracture. Some thin prismatic to granular calcite bands.
88.4	174.0	Mudstone, siltstone and sandstone: Light to medium greenish gray (5G to 5BG 8/1-4/1), calcareous. Very faint smooth to distorted bedding and some massive. Some irregular shaly parting; smooth to conchoidal and some hackly fracture. Very rare small irregular dull black blebs and stringers (fracture fillings?) with some pyrite.

^{1/} By L. G. Trudell, completed September 1964.

Illustration No. SBR-4450P (Sheet 1 of 2)

LITHOLOGIC DESCRIPTION OF SAMPLES SUBMITTED FOR ASSAY

Core samples from the U.S. Bureau of Reclamation's Seedskadee Development
Farm No. 1 well

From	To	Description
174.0	175.0	Marlstone: Light to medium gray (6.5-5.5N). Very faint slightly irregular and distorted laminations. Irregular thin shaly parting; conchoidal to hackly fracture.
175.0	176.3	Marlstone: Medium to rare dark olive gray (5Y 5/1-4/1, rare 3/1; almost neutral). Very faint smooth bedding. Irregular to smooth, thin shaly to papery parting; hackly fracture. A 2-inch brownish gray crystalline limestone band near top. A 1-1/2-inch prismatic calcite band at 176.0 feet.
176.3	183.5	Marlstone and oil shale: Medium to dark olive gray (5Y 5/1-3/1 and 5/2-3/2). Smoothly laminated; common very fine buff streaks. Smooth papery parting; very hackly fracture. Some thin to moderately thick prismatic calcite bands. A 1-3/4-inch buff to brownish gray tuff (?) with some fine dark brownish gray oil shale shreds at 177.4 feet. Common ostracods near base. Sample of calcareous tuff from 177.4 feet: X-ray - calcite.
183.5	184.5	Marlstone: Medium to dark olive gray (5Y 5/1-3/1; some almost neutral). Smooth bedding and faint laminations. Regular medium to thick shaly parting; smooth to slight hackly fracture. Very common ostracods. Some thin interlacing fibrous calcite stringers at 184.1 feet.
184.5	185.5	Marlstone and sandstone: Light to medium and rare dark gray marlstone upper 0.4 foot (6-5N, rare 3.5N); buff to brownish-gray sandstone lower part (7.5YR 7/2-5/1). Faint irregular bedding upper part; distorted laminae and stringers lower part. Irregular thin to thick shaly parting; slight hackly to conchoidal fracture. Common ostracods upper part.
185.5	229.0	Mudstone, siltstone and sandstone: Light to medium olive gray and greenish gray (10Y to 5GY 7/2-4/1), calcareous. Massive and some distorted bedding. Rare irregular shaly parting and hackly fracture.
Bottom of core.		

Illustration No. SBR-4450P (Sheet 2 of 2)