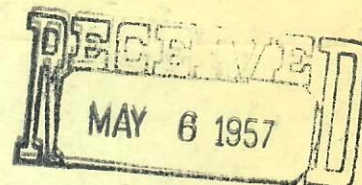




00603339



SUNDOWN-KNAPP #1 FEDERAL

MESA COUNTY, COLORADO SEC. 1 T2N R3W

OIL & GAS
CONSERVATION COMMISSION

LITHOLOGICAL LOG

- 0-1200 Shale, dark gray to black, silty in part, some calcite seams, typical Mancos formation
- 10 Shale, as above
 - 20 Shale, as above with some aragonite
 - 77 Shale, dark gray to black, silty in part
 - 87 Shale, as above with bentonite zone
 - 1307 Shale, dark gray to black
 - 17 Shale, as above with aragonite fracture filling
 - 75 Shale, dark gray to black, silty in part
 - 85 Shale, as above with some aragonite
- 1385-1715 Shale, dark gray to black, silty in part with some pyritic zones and bentonite zones
- 1715-1731 Siltstone, gray, hard, calcareous and minor flesh colored calcite
- 1731-1740 Shale, dark gray with some bentonite
- 60 Shale, dark gray
 - 68 Siltstone, gray hard, bituminous shale, some calcite and bentonite
 - 78 Shale, dark gray, silty
- 1778-1829 Shale, dark gray, silty, some bentonite zones
- 1829-1837 Siltstone, gray hard and dark gray silty shale
- 46 Siltstone, gray hard and some individual quartz grains
 - 63 Siltstone, gray hard, very fine grained sandstone and individual quartz grains
 - 72 Siltstone, light to dark gray, dark gray silty shale and considerable colorless individual rounded to subangular quartz grains
- 1872-1890 Shale, dark gray silty in part
- 1890-1906 Shale, dark gray, pyritic, silty with minor bentonite, calcite seams
- 13 Shale, dark gray and dark gray siltstone
 - 23 Shale, dark gray and trace bentonite and pyrite

DAKOTA SANDSTONE TOP AT 1923

- 1923-1928 Sandstone, fine to medium, clear to white, quartzose, angular to well rounded, poorly sorted, considerable individual quartz grains, slight fluorescence

KREY - SCHUB
GEOLOGICAL CONSULTANTS

Sundown-Knapp #1 Federal (cont'd)

- 1928-1931 Siltstone, gray, hard and dark gray silty shale
1931- 45 Sandstone, medium grained, light gray to colorless, angular to subrounded, well sorted, friable, predominately ind. quartz grains, good silver blue fluorescence, well stained good dull yellow cut
- 50 Shale, dark gray, silty in part
1950- 54 Sandstone, fine to coarse, white to colorless, angular to subrounded, poorly sorted, considerable ind. quartz grains, slight fluorescence.
(Sandstone greatly resembles 1923-28 zone)
- 60 Shale, dark gray, silty in part
1960- 70 Sandstone, very fine to medium, light gray to colorless, quartzitic, angular to subrounded, well sorted, hard tight, no fluorescence
- 74 Shale, dark gray to black, some black coal to coaly shale, some bentonite, trace pyrite
1974- 82 Shale, dark gray-black, bituminous, coaly and gray siltstone and some bentonite
- 87 Shale, as above and some bentonite, trace calcite
- 95 Shale, as above and some bentonite
1995-2018 Sandstone, medium grained, angular to subrounded, well sorted, colorless to white, friable, predominately ind. quartz grains, spotty fluorescence and stain (water in hole @ 1999)
- 25 Siltstone, gray-greenish, dark gray-black bituminous shale, coaly in part and considerable bentonite
- 30 Shale, dark gray to black, bituminous, coaly in part, gray siltstone and considerable bentonite and pyrite
2030- 34 Sandstone, light gray very fine grained to silty; hard dark gray to black bituminous shale, some bentonite
- 39 Shale, dark gray to black, bituminous, trace pyrite
2039- 45 Sandstone, light gray to white, very fine grain, friable, predominately ind. quartz grains
2045- 49 Shale, dark gray to black, bituminous and hard gray siltstone, some bentonite, trace pyrite

MORRISON TOP 2049

- 2049-2060 Shale, gray-green, hard
- 65 Shale, gray-green, hard (cavings of dark gray-black shale)

Sundown-Knapp #1 Federal (cont'd)

- 2065-2070 Sample missing
- 73 Shale, gray-green, hard, some bentonite, trace pyrite and (cavings of dark gray-black shale)
 - 76 Siltstone, apple green, hard, glassy, argillaceous, considerable bentonite and dark gray shale and gray siltstone from probable caving
 - 81 Shale, gray-green, silty, some apple green siltstone and some bentonite
 - 87 Limestone, flesh colored to buff, hard possible concretionary and highly calcareous light green mudstone, bentonitic
 - 92 Shale, gray-green, hard silty, some flesh colored limestone and calcareous mudstone
 - 2100 Shale, pale red, slightly silty, pale red to brown limestone and gray-green shale as above. Probable red shale top at 2096
 - 09 Siltstone, gray-green, hard calcareous cement; red silty shale and minor flesh colored limestone

BUCKHORN SANDSTONE TOP AT 2109

- 2109-2132 Sandstone, colorless to white, fine to medium grained, rounded to subangular, well sorted, friable predominately ind. quartz grains, slightly calcareous, slight show of gas on top of salt water
- 2132- 48 Sandstone (different from above) buff to brown, very fine to medium, silty, poorly sorted, angular to subrounded, soft friable, highly calcareous, limonite stains
- 50 Shale, gray-green to varicolored, silty in part
 - 53 Shale, dark red, slightly calcareous, some bentonite, minor flesh colored limestone
 - 60 Shale, gray-green, very silty in part, considerable gray-green to flesh colored hard dense limestone
 - 75 Shale, as above with less limestone, trace pyrite
- 2175- 85 Sandstone, white to colorless, very fine to medium, poorly sorted, angular to well rounded, no stain or fluorescence, slight flow of gas blazed 1½ ft. above derrick floor while drilling
- 2185- 93 Sample missing; water in hole on this run, possibly coming in on run before, about 1,000 ft. of fillup, hardened up drilling @ 2190 ft.
- 2193- 98 Sandstone, light brown to buff, very fine to fine poorly sorted, angular to subrounded, iron stained, no fluorescence or stain

Sundown-Knapp #1 Federal (cont'd)

- 2198-2215 Shale, gray-green, calcareous, some interbedded red siltstone
- 35 Shale, red to varicolored, silty in part
 - 50 Shale, gray-green to varicolored
 - 54 Shale, pale red, silty
 - 61 Shale, pale red, silty and gray-green silty shale
 - 67 Shale, gray-green and red, silty
 - 73 Shale, pale red, very silty to siltstone in part, some gray-green shale
 - 93 Shale, pale red, very silty to siltstone in part
- 2293- 57 Shale, pale red to varicolored silty in part, minor flesh colored limestone and some gray-green shale zones
- 2357- 67 Sandstone, light gray to buff, fine grained to silty, poorly sorted, angular, hard, slightly calcareous
- 70 Sandstone, greenish-gray, very fine grain, angular, hard, calcareous, angular and gray-green silty shale
 - 77 Shale, gray-green to varicolored and considerable colorless to red individual chert grains
- 2377- 82 Shale, gray-green to varicolored, calcareous in part, silty in part, minor flesh colored limestone
- 2382- 90 Sandstone, light gray, fine grain, angular, calcareous, fair stain and fluorescence, good cut. Top 3 ft. very hard and tight, increasing to fair porosity. Gas showed in hole at 2389'
- 2390- 95 Cored, recovered $\frac{1}{2}$ inch of 2" diameter core. Sandstone, dark gray, medium grained, well sorted, subrounded, friable, good porosity, slightly calcareous, well stained with dead oil, good silver blue fluorescence, very good cut. Gauged gas at rate of 2,500,000 C.F.D. with side static gauge and 1" orifice on 2" flow line.

Mon - Oct. 18, '65

Bogdanish called and said they would get reports in right away. He said they were in the process of selling the well to a Mr. Buranek. He will send the new owners address, etc.

Hack