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MAY 21 1985

COLO. OIL &amp; GAS CONS. COMM.

1-27 Lettler



00209925

FORMATION TOPS

| <u>FORMATION</u> | <u>DEPTH</u> | <u>SEA LEVEL DATUM</u><br>K.B. 4898 |
|------------------|--------------|-------------------------------------|
| Shannon          | 5040         | -142                                |
| Niobrara         | 7166         | -2268                               |
| Ft. Hays         | 7407         | -2509                               |
| Codell ss.       | 7430         | -2532                               |
| 'x' Bentonite    | 7723         | -2825                               |
| 'J' ss.          | 7884         | -2986                               |
| Stull Creek      | 7981         | -3083                               |

TRICIA (SIC)

I HOPE THIS IS WHAT YOU NEED.

Lary Garding

JB

# Sample Description

1-27 Lettler

Samples were caught by the drill crews unlogged. They were taken every 30' from 4500-4600' & 4850-5000', & every 10' from 700' to T.D. The samples are described below unlogged & interpreted only so far as to exclude obvious cave.

500-4580 Sh Med-Med Dk. Gray, Blocky-Platy, Soft-Firm, slightly Carbonaceous & Micaceous, Tr Cream Colored Bentonite, Tr Pyrite, Tr Inoceramus, Locally silty to Sandy. ss. is Lt. Gray - Clear, V.Fine - Fine, Salt & Pepper, Med. Calcareous, Sub Rd., Well Sorted, Friable, Tr Pyrite, Tr Glauconite, Tr Mica, N.S.O.F.

580-4600 Sh As Above, only Trace ss. noted.

650-4900 sh/ss Sh Med. Gray, Blocky-Platy, Firm, Carbonaceous & Micaceous, Moderately Calcareous, w/ Abun. Cream Colored, Fluor. Bentonite, Tr Inoceramus. ss is Lt. Gray - white, V.Fine - Fine, Salt & Pepper, Sub Rd., Well Sorted, clay filled - tight, Tr Mica, Tr Glauconite, Faint Yell. White Fluor. on occasional chip, No cut.

800-4960 ss Lt. Gray - White, As Above, still with occasional Fluor. chip.

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7200-5000 sh, Med Gray, Blocky-Platy, Firm, Fissile,  
slightly Calcareous, Tr Pyrite, Tr Carbon & Mica, Tr Inoceramus  
Moderate Cream colored Bentonite, Locally Silty

70-7260 sh Dk Gray-Black, Platy, Firm, Fissile, Carbonaceous  
& Micaceous, Tr Fluor. Bentonite, Tr Inoceramus  
Locally silty, slightly calcareous

60-7330 sh, Black, Blocky-Platy, Firm-Hard,  
Carbonaceous & Micaceous Tr-1% Cream Colored  
Bentonite w/ Fluor, Tr Pyrite, Tr Inoceramus,  
Moderately Calcareous

70-7360 sh Dk Gray-Black, Blocky-Platy Firm-Hard, Brittle  
Carbonaceous & Micaceous, Tr Pyrite, Tr Inoceramus  
Tr Bentonite w/ Fluor., V. Calcareous Locally silty

70-7370 sh As Adv. w/ some ss Lt. Gray-Med. Gray, V. Fine,  
Rd., well sort., Frinble, Argillaceous, Tr Pyrite, Tr Glauc.  
N.S.o. F.

70-7440 sh As in 7370-7360 w/ some Mottled Brown-Black  
Calcareous sh, Locally silty to sandy, Tr-1%  
Inoceramus

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440-7480 Sh As Abv. & Ls. Tan-Cream, Platey, Hard-dense,  
7 Hays sucrosic, Poor Porosity, Tr Inoceramus, Tr Pyrite,  
N.S.O.F.

480-7500 SS Lt. Gray - Brownish Gray, Salt & Pepper, V. Fine - Fine,  
Cedell Sub. Rd., Well Sorted, Clay filled. Tite, Friable,  
SS Tr Glauconite, Tr Mica, streaky Brown staining on  
30-40% of chips, Faint Yell-White Flour on 3-5% of  
chips show milky white cut

500-7680 Sh Med. Dk Gray Blocky - Platey, Firm-Hard,  
Carbonaceous & Micaceous, Tr Inoceramus, Tr Pyrite,  
Locally silty, Tr - 1% Bentonite w/ Fluor.  
Moderately Calcareous.

580-7700 Sh Dk Gray As Above & Ls. Brownish Gray, Hard, Dense,  
Microcrystalline, V. Poor Visible porosity, N.S.O.F.  
Tr Glauconite, N.S.O.F.

70-7860 Sh Dk Gray - V. Dk Gray, Blocky - Platey, Firm, Brittle,  
Carbonaceous & Micaceous, Tr Pyrite, Tr Inoceramus,  
Moderately Calcareous, Tr Fluor. Bentonite

10-7800 Sh. As Above, & Mod to Abun Cream Colored  
Bentonite, Fluor. w/ Tr Pyrite.

7-7860 Sh Dk Gray - Black, Blocky - Platey, Firm, Fissile,  
Carbonaceous & Micaceous, Tr Pyrite, Tr Bentonite  
slightly Calcareous

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1-27 Leftler

- 7800-7910 sh Dk Gry - Black as above w/ Abund Cream to Olive  
Fluv. Bentonite
- 7910-7940 sh As Above w/ Tr. 1% Bentonite & Some White Siltstone  
V. Fine, Hard, Blocky, Tr. Mica, Tr. Carbon, Tr. Pyrite
- 7940-7990 ss White to Clear, Fine, Sub Rounded - Rounded,  
'J' ss. Friable, Well Sorted, Tite, Silica Cemented, Tr. Mica,  
some streaky faint brown oil staining 60-70%  
of chips have Pale Yell-white Fluv. & slow milky  
to streaming white cut.
- 7990-8020 sh Dk. Gray - Black, Blocky - Blocky - Firm - Hard,  
Fissile, Carbonaceous & Micaceous, Tr. Bentonite
- Skull  
Creek sh.

Upon completion of the well and logging  
program it was determined by Mr. Greg  
Hovivian and Tom Nicholson that the well  
should be plugged and abandoned. This  
decision was reach primarily on log  
parameters i.e. poor porosities in the Cade  
& J. sands, & high water saturations  
in both intervals.