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3940 Dover Street  
Wheatridge, Colorado  
March 3, 1952

Mr. C. D. Edmonson  
Denham Bldg.  
Denver, Colorado

Dear Mr. Edmonson:

Attached herewith are a descriptive sample log, core description, drill-stem-test data, drilling-time and bit record from your No. 1 Russell, 25-12N-45W, Sedgwick County, Colorado.

The formations penetrated and other data were as follows:

C. D. EDMONSON, NO. 1 RUSSELL  
SE SE NW Sec. 25, T.12N., R.45W.  
Sedgwick County, Colorado

Elev: 3529' grd.; 3538' KB.  
Comm: February 13, 1952  
Comp: February 26, 1952  
Contr: Transit Drig. Co.  
Csg: 10 3/4" @ 251' w 150 sx.

|                         |       |                   |
|-------------------------|-------|-------------------|
| Top Niobrara sh         | 2450' | (Schlumb measure) |
| " Ft. Hays ls           | 2830  | "                 |
| " Carlile sh            | 2875  | "                 |
| " Greenhorn ls          | 3035  | "                 |
| " "D" Sand              | 3236  | "                 |
| " "J" Sand              | 3348  | "                 |
| " Skull Creek sh        | 3432  | "                 |
| " "M" Sand              | 3578  | "                 |
| " Morrison sh           | 3760  | "                 |
| T.D., D & A in Morrison | 3782  | "                 |

No shows of oil or gas were encountered anywhere in the geologic column. Both the "D" and "J" sands were drill-stem-tested and after drilling to 3782 feet in the Morrison shale, the No. 1 Russell was recommended for abandonment on February 26, 1952.

Very truly yours

*Karl M. Buehler*

Karl M. Buehler, geologist



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C. D. Edmonson, No. 1 Russell, SE SE NW 25-12N-45W, Sedgwick Co., Colo.

- 3140 to 3150' Sh, v blk; ls, as above, 05%; tr gr, v f, glauc siltst.  
 -60 Sh, v blk; tr gr, v glauc, shy siltst.  
 -70 Sh, v blk; siltst, gr, v glauc, w few brn fish frgs.  
 -80 Same; ltl wh, m, a, qtzic, glauc ss.  
 -85 Sh, blk, 70%; ss, wh, m, a, dns, qtzic, sl glauc, 10%; calcite, crs x; wh, 20%.  
 -88 (circ 15 min) Sh, blk, 90%; ss, wh, m-f, a, dns, qtzic, glauc, w brn fish frgs, 10%.  
 -88 (circ 40 min) Sh, blk; ltl sid.  
 -97 (circ 15 min) Sh, blk, 90%; sid, 05%; ss, wh, f, a, sl glauc, friable, pt w wh cly fill, 05%.  
 -97 (circ 40 min) Sh, blk; tr ss as above.  
 -3201 (circ 15 min) Same.  
 -3201 (circ 40 min) Sh, blk, 90%; ss, wh, f, a, friable, sl glauc, w m por & perm, 10%; tr sid.  
 TOP "D" SAND 3200' equals 3236' corrected.  
 STRAPPED PIPE @ 3201' equals 3237' corr. 36' down-hole measurement correction applied here.  
 CORE No. 1, 3237-3247'. See core records.  
 DST No. 1, 3239-3247'. See DST records.
- 3247 to 3260 (drlg) Ss, wh, m, sa, sl glauc, w few blk g, w m-gd por & perm; tr sid.  
 -70 Ss, wh, m, sa-a, friable, pyritic, glauc, ev-sort, w gd por & per  
 -75 Ss, wh, m-f, cly filled & pyr, dns; cons sid & sdy sid; sh, dk gr-blk, 50%.  
 -80 Ss, wh, m, sa, mica, vel g, w gd por & perm, 50%; sh, blk, fiss, 50%; cons sdy sid.  
 -90 Ss, wh, m-f, a, mica, sl vel g, w m to m-low por & perm; cons sid  
 -95 Ss, wh, m-f, sa, mica, v carb, w m-gd por & perm; cons sdy sid.  
 -3300 Sh, dk gr & blk, 70%; ss, gr, m-f, sa, "pep", por, 30%.  
 -10 Sh, dk gr to blk, 70%; ss, wh, m, a, sl mica, sl vel g, friable, m por, 30%.  
 -15 Same.  
 -19 (circ 1 hr) Sh, dk gr; ltl gr-wh, mica siltst.  
 -50 Sh, dk gr & blk, fiss.  
 -51 (circ 15 min) Sh, dk gr to blk, 95%; ss, gr, f, dns, shy & qtzic, sl glauc & phos; no por or perm.  
 -51 (circ 40 min) Ss, gr to wh, m, a, sl glauc, sl phos, sl "pep"; some w m por & perm; no stain or odor.  
 TOP "J" SAND 3348'.  
 DST No. 2, 3350-3371'. See DST records.  
 -60 Ss, same, 50%; sh, dk gr & blk, 50%.  
 -66 (circ 15 min) Ss, wh, f, a, sug, sl pep, v glauc; low por & perm.  
 -66 (circ 40 min) Ss, same; por & perm m to low; sid, f sdy, glauc, 20  
 -71 (circ 15 min) Ss, wh, v v f, sug, mica, f glauc, dns, sl carb, 50%; sh, v dk gr, 50%; ltl sid; some wh, m-f, sr-sa, cly cem ss.  
 -71 (circ 40 min) Ss, wh, v f to m-f, sa-sr, sl glauc, w wh cly cem; cons sid.  
 -85 Sh, dk gr to blk, 90%; ss, brn, v f, sid cem, or sdy sid, 10%.  
 -95 Same; ltl brn, dns sid.  
 -3400 Sh, dk gr, 90%; ss, wh, m, sa, some w wh cly fill, some w m por, 10%.  
 -05 Ss, wh, m, sa, w m-gd por & perm; ltl sid.  
 -15 Ss, wh, m, sa-sr, w few pk g, pt calc, some w gd por & perm; cons brn, sid cem ss; some ss w coal frgs; no fluor.



C. D. Edmonson, No. 1 Russell, SE SE NW 25-12N-45W, Sedgwick Co., Colo.

3415 to 3420' Ss, same as above.

-30 Ss, brn to wh, m, sa, sid cem, some carb & calc cem, w m-gd por & perm; no fluor.

-40 Ss, gr-wh, m-f, sa, ev-sorted, pep, sl glauc, w m-low por & perm; pt w wh cly fill, pt shy.

TOP SKULL CREEK sh 3432'.

-45 Sh, dk gr to blk, 75%; sltst, m-dk gr, dns, s&p, sl glauc, shy, qtzic, 25%.

-50 Sh, v dk gr or blk; ltl gr sltst.

-60 Sh, gr to blk, 70%; sltst, gr, s&p, glauc, sid, 30%; cons slty, glauc sd.

-80 Sh, dk gr & blk, 80%; sid, 20%.

-3500 Sh, m to v dk gr or blk.

-10 Sh, same, 85%; sltst, lt gr, f, dns, s&p, glauc, 15%.

-20 Sh, m to dk gr.

-30 Same; ltl gr, qtzic sltst.

-40 Sh, same, 80%; sltst or v f ss, wh, dns, mica, calc, 20%.

-50 Sh, v dk gr to blk; ltl sid.

-80 Sh, m to dk gr or blk.

TOP "M" SAND 3578'.

-85 Sh, v dk gr or blk; tr ss, wh, v f, a, sug w few blk g.

-90 Same; PS after trip @ 3577'.

-95 Ss, wh, m-f & v f, a.

-3600 Ss, wh, m, a, friable, w gd por & perm; ltl pyr & sid.

-05 Ss, same, some v calc cem ss, some sl sid cem ss; pyr com; no fluor.

-10 Ss, or to wh, f to m, sa-sr, calc & sid cem, some w m por & perm; no fluor.

-15 Ss, same, 40%; sh, dk gr to blk, 60%; no fluor.

-20 Ss, v f or sltst, wh, mica, dns; ss, wh & cr, m, sr, calc com, & ss, wh, m-f, sa, friable, w m-low por.

-25 Ss, & sltst, wh, mica, sug, sl carb, dns.

-30 Ss, wh, v f, mica, sug, dns, & m-f, a, sug, sl vol g, w m por.

-35 Sh, v dk gr or blk, fiss.

-40 Ss, wh, v f, mica, dns, sug, 40%; sh, dk gr to blk, 60%.

-45 Ss, same, 20%; sh, dk gr to blk, 30%.

-50 Ss, wh, v f, mica, dns, 40%; sh, dk gr to blk, 60%; sid com.

-55 Sh, v dk gr or blk: ltl sid.

-60 Sh, same, 70%; ss, wh, v f, mica, sug, dns, 25%; sid, 05%.

-70 Sh, dk gr to blk, 95%; sid, 05%.

-75 Sh, same, 85%; ss, wh, m-f, a, friable, mica, w m por & perm, 15%

-80 Sh, dk gr to blk, 75%; ss, wh, v f to m-f, a, pt calc, some w low por & perm, 25%.

-3710 Sh, dk gr to blk.

-15 Sh, dk gr to blk, 85%; ss, wh, v f, sug, sl por, 15%.

-25 Same.

-30 Same; ltl wh, v f, sug ss & wh, m-f, sa, sug, m por ss.

-50 Ss, wh, v f, a, sug, mica, dns.

-55 Ss, as above & cr, f, r ss; ltl wh, m-f, a, friable ss w m por.

-60 Ss, wh, v v f to m, sr, calc, pt carb; pyr abd.

TOP MORRISON sh 3760'.

-65 Clay, wh, soft, dissolves in wash water.

-75 Clay, lt gr-wh & pale grn-wh, splintery, sdy.

-82 Same; washes out of samples.

-82 (circ 1 hr) Same.

3782' T.D., D & A in Morrison shale, February 26, 1952.



C. D. Edmonson, No. 1 Russell, SE SE NW 25-12N-45W, Sedgwick Co., Colo.

#### CORE DESCRIPTION

Core No. 1, 3237 to 3247'. Rec 9'. No fluor, stain or odor.

- Top 1' Ss, wh, m, sa-sr, carb, sl glauc, sl mica, pyr, sl phos, w med-gd por & perm; many thin blk sh partings; 1" sid streak in middle; sd wet.
- 3' Ss, wh, m, sa-sr, ev-sort, clean, w few pk, blk & grn g; med-gd por & perm; few glauc g & few foss frgs; sd v wet.
- Bot 5' Ss, wh, m-f, sa-sr, w few blk, pk & grn g; all v shly w up to 40% gr & blk sdy sh partings; ss w gd por & perm but all v wet; 1" sid streak 6" below top.

#### DRILL STEM TESTS

DST No. 1, 3239 to 3247'. Open 30 min; strong water blow rapidly decreasing to nearly static at end of 30 min. Rec 1500' sl salty, gassy water. FP 0-550#. SIP 678# (15 min). Gas dissolved in water.

DST No. 2, 3350 to 3371'. Open 30 min; strong water blow decreasing to nearly static at end of 30 min. Rec 255' watery mud. Tool functioned alright but lost fluid from tool while coming out of hole. FP 70-240#. SIP 713# (15 min).

Karl M. Buehler  
Karl M. Buehler, geologist  
March 3, 1952



SAMPLE DESCRIPTIONS

Sample descriptions by Karl M. Buehler, geologist on location. Samples start @ 2400' in Pierre shale. Samples 2400 to 3201' should be corrected down-hole 36' for measurement correction applied @ 3201'.

2400 to 2410' Sh; v dk gr to blk; ltl v dk gr or blk, arg ls.

-30 Sh, v blk, carb, w fish frgs; ltl sid.

TOP NIOBRARA sh 2415' equals 2450' corrected.

-40 Sh; lt to m gr, v calc speck; cons bent.

-50 Sh, v lt gr, v calc speck; cons bent.

-90 Sh; lt or-gr, v calc speck, v chalky.

-2600 Sh; lt to m gr, v calc speck.

-30 Sh, m-dk gr, v calc speck.

-60 Sh, lt or-gr, v calc speck.

-90 Sh, or-gr, v calc speck, chalky.

-2710 Chalk, v lt or-gr, v f speck.

-30 Chalk, 30%; sh, m brn-gr, v calc speck, 70%; wh Inoc pr com.

-40 Chalk, lt or-wh, soft, foram, 50%; sh, m gr, v calc speck, 50%.

-50 Chalk, same, 50%; sh, blk, 50%.

-70 Chalk, wh, soft, foram, 30%; sh, lt to m brn-gr, v calc speck, 70

-2800 Sh, lt to m gr, v calc speck.

TOP FT. HAYS ls 2800' equals 2830' corrected.

-20 Sh, m gr, f calc speck, 30%; chalky ls, wh, foram, 20%.

-50 ls, wh, chalky, foram, 50%; sh, v dk gr or blk, 50%; or  
Inoc pr; cons bent.

TOP CARLILE sh 2850' equals 2875' corrected.

-60 sltst, gr, shly, f glauc, 25%; sh, m-dk gr, fiss, pt slty, 75%.

-70 Sh, dk gr, fiss.

-80 Sh, m brn-gr, calc, f slty, f glauc.

-90 Sh, blk, calc speck, 90%; ls, or & gr, gran, comp of Inoc pr, 10%

-2900 Sh; v dk gr, calc speck; ltl gr, calc, glauc sltst.

-20 Sh, dk gr to blk; calc speck, foram, sl slty.

-40 Sh, dk gr to blk, pt calc speck.

-50 No sample.

-3000 Sh, dk gr to blk, pt calc speck.

TOP GREENHORN ls 2995' equals 3035' corrected.

-10 Sh, dk gr, v calc speck, 90%; ls, gr, spt'd, arg, Orb, 10%.

-20 Sh, same, 70%; ls, lt gr to or, f x, arg, foss, w Inoc pr abd, 30

-40 Sh, same, 70%; ls, lt gr to wh, v f, chalky, foram, 30%.

-50 Sh, dk gr, v calc speck, 30%; ls, or, f x, gran, glauc, 20%.

-60 Sh, dk gr to blk, v calc speck.

-70 Sh, same, 95%; ls, or-wh, m x, comp of Inoc pr w blk fish frgs.

-80 Sh, same; ltl or & lt gr, v g x, suc ls.

-90 Sh, v dk gr, sl calc speck.

-3100 Sh, dk gr, v calc speck, 90%; ls, m gr-brn, v f x, arg, suc, 10%

-10 Sh, dk gr to blk, sl calc speck; tr gr, Orb, sl slty, f glauc ls.

-20 Sh, blk, v sl calc; ls, gr to bf, mealy, 05%; bent abd.

-30 Sh, blk.

-40 Sh, blk, sl calc speck, 90%; ls, amb-brn, comp of Inoc pr, 10%.



Edmonson, No. 1 Russell, SE SE NW 25-12N-45W, Sedgwick County, Colo.

# DRILLING TIME RECORD

Minutes per foot.

3135 to 3155' 1-1-2-3-1-1-2-2-2-2-3-2-1-1-1-2-2-1-2-1  
 -3175 2-2-1-2-2-2-1-2-2-1-1-2-2-2-1-2-2-2-2-2  
 -3201 2-2-1-2-2-2-2-2-2-2-3-3-2-2-2-2-3-2-2-2-1-1-1-2-1  
 Measurement correction, 3201' equals 3237' correct.  
 36' down-hole correction applied here.  
 3237 to 3250 5-10-8-10-16-11-13-10-9-9-2-1-2 Cored 3237-47'  
 -70 3-2-2-3-3-3-2-1-1-2-2-1-3-4-3-4-3-3-3-3  
 -90 4-4-5-4-4-4-5-4-7-7-7-7-6-5-5-5-5-6-5-4  
 -3310 9-7-8-7-9-4-4-13-15-14-14-16-5-4-4-4-3-5-2-2  
 -30 3-3-3-4-5-4-4-4-4-3-2-1-2-2-2-2-2-2-3-2  
 -50 1-2-1-1-2-1-2-1-2-1-1-2-1-1-2-2-3-2-5-2  
 -70 2-2-2-2-2-1-1-2-2-2-2-1-1-2-3-2-4-2-3-3  
 -90 3-4-3-3-4-4-4-4-4-4-6-5-1-3-5-4-5-3-4-4  
 -3410 3-4-3-3-3-3-2-2-3-3-3-2-2-3-3-6-4-3-5-5  
 -30 5-5-4-5-4-4-3-5-4-4-4-4-2-2-2-1-3-3-3-5  
 -50 5-6-6-6-4-5-5-6-8-9-9-8-6-8-11-9-10-12-10-12  
 -70 13-10-8-9-7-6-7-6-5-5-5-5-5-5-6-6-7-7-7-8  
 -90 12-11-9-8-8-12-14-9-10-10-9-9-9-9-10-7-9-8-8-8  
 -3510 10-11-10-7-7-7-7-7-7-8-6-9-7-8-6-6-7-7-9-7  
 -30 6-7-7-6-7-6-5-6-7-7-5-6-4-6-6-7-7-5-18-10  
 -50 8-6-8-9-8-9-10-7-9-8-6-5-7-5-7-7-7-7-7-5  
 -70 5-6-6-6-6-6-7-7-6-7-5-4-5-6-7-7-9-9-9-6  
 -90 6-3-3-7-7-5-7-3-2-2-2-2-2-2-2-2-3-3-3-3  
 -3610 2-2-2-2-2-2-4-4-5-4-5-6-5-5-8-6-5-4-4-2  
 -30 3-4-6-4-4-4-6-2-2-4-2-2-3-3-3-11-9-5-4-3  
 -50 6-7-6-7-8-9-6-5-5-5-5-7-4-7-8-5-5-5-8-6  
 -70 5-3-3-8-9-8-9-8-7-7-8-4-6-5-5-5-5-8-9-7  
 -90 5-4-7-6-8-11-5-6-6-7-7-7-7-7-8-8-8-9-7-7  
 -3710 11-9-10-11-9-9-8-7-10-7-8-6-5-6-10-5-5-4-4-4  
 -30 6-6-9-12-9-9-12-13-9-6-13-10-9-23-10-15-20-22-5-5  
 -50 4-3-3-3-2-2-3-2-5-2-2-5-5-2-2-2-2-3-4-3  
 -70 4-5-5-12-19-5-7-6-13-12-12-18-12-10-10-13-10-10-10  
 -3782 23-12-15-12-15-12-14-8-8-8-11-10  
 3782' T.D., D&A in Morrison, February 26, 1952.

## BIT RECORD

|   |       |        |      |            |       |                       |
|---|-------|--------|------|------------|-------|-----------------------|
| 1 | HTC   | 9"     | OSC3 | 262-2219'  | 1957' | Plugged bit, sharp.   |
| 2 | "     | "      | "    | -3237      | 1018  | Out to core.          |
| 1 | Rerun |        |      | -3302      | 65    | Reamed 10', worn out. |
| 3 | HTC   | 8 3/4" | OSC1 | -3577      | 275   |                       |
| 4 | "     | "      | "    | -3728      | 151   | Bald.                 |
| 5 | "     | "      | OSC  | -3782 T.D. | 54    | Out to Schlumb.       |

Core Head 1 HTC 7 1/2" Rerun HF 3237-3247' 10' Rec 9' Ss.