

Sample Description

NOV 2 1959

Alex N. Campbell Rudman Gev't Ne. 1 U. S. GEOLOGICAL SURVEY FARMINGTON, NEW MEXICO

<u>1,100-1,110</u>	95% SHALE, dark gray, silty to clayey, seft, wary. 5% SANDSTONE, light gray, glassy, fine to medium grained, argillaceous, seft. No shows. Trace of COAL.
4110-4120	ho% coal 60% Shale, as abeve.
4120-k150	5% SANDSTONE, lt. gray, fine grained, argillaceous, soft, tight. 95% SHALE, light to dark gray, seft, waxy, clayey. Trace of COAL
4150-4160	10% SAMOSTONE, as above. 25% COAL 65% SHALE, as a bove.
416 0- 4170	50% COAL 50% SHALE, as above.
4170-4180	10% SANDSTONE, light gray, fine to very fine grained, silty, argillaceous, seft, tight. 10% COAL 80% SHALE, as above.
4180 -419 0	30% SANDSTONE, light gray, fine to medium grained, glauce- nitie, argillaceous. No shows. 70% SHALE, gray, clayey, seft.
<u>4190–4200</u>	40% SANDSTONE, as above 10% COAL 50% SHALE, as above.
4200-4230	60% SANDSTONE, as above. Abundant bent.
4230-4250	100% SANDSTONE, light gray, "salt and pepper", glaucenitic, fine to medium grained grading from argillaceous and tight to fairly clean and perous. No shows.
4250-4260	60% SANDSTONE, as above. 40% SHALE, gray, clayey, soft.
4260-4270	100% SHALE
11270-11280	60% SANDSTONE, light gray, fine to med. grain, salt & pepper, fairly clean, perous. Approx. 50% goed fluor & cut. 40% SHALE, as above.
µ280~4µ290	100% SANDSTONE, as above. 5% fluorescent. RECEIVED NOV3 1959 OIL CON. COM.

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1290-1300
               60% MANDSTONE, light gray, fine to med. grained, argill.,
               bent, tight, seft. Trace of fluorescence.
               hos small, gray, elayey.
k300-k350
               100% SANDSTONE, as above
4350-hh00
               1005 SANDSTONE, as above.
MACO-MA10
               75% SANDSTONE, light gray, glauconitic, salt & pepper, arg-
               illaceous, dense, tight.
               25% SHALE, gray, silty to clayey.
4410-4420
               100% SANDSTONE, as above
4420-4430
               LOW SANDSTONE, dark gray, silty, dense, tight.
               606 SMLE, as above.
July 30-July 10
               SOK SANDSTONE, as above.
               tok shill, as above.
hinto-likeso
               50% SARDSTONE, as above.
               505 SHALE, as above.
M450-M60
               25% MANDSTONE, as above
               75% SHALE, as a bove.
Pre-17 Pre-180
              LOW SANDSTONE, light gray, fine to very fine grained, silty,
              argillaceous, tight. No shows.
              60% SHALE, light to dark gray, silty to clayey.
MF80-F200
              20% SANDSTONE, as above.
              80% SHALE, as a beve.
4500-4510
              25% SILTSTONE, light gray, sandy, argill., dense, tight.
              75% SHALE, dark gray, splintery, slightly carb.
4510-4520
              35% SILTSTONE, as above.
              65% SHALE, as above
              15% SANDSTONE, light gray, fine to medium grained, silty,
4520-4530
              argille, tight. No shows.
              25% SILISTONE, gray, sandy, argillaceous, dense, tight.
              65% SHALE, as above.
4530-4540
              35% SILTSTONE, as above.
              65% SHALE, as above.
1210-1260
              10% SILISTONE, as dove.
              90% SHALE
F260-F200
              100% SHALE, gray to dark gray, hard silty to seft clayey,
              slightly earbonaceous. .
4600-4700
              100% SHALE, light gray, silty and hard to dark gray, carb-
              CDAGE CUE.
1700-1800
              100% SMALE, as abeve.
F800-F200
              100% SHALE, dark gray to black, slight clayey, slightly
              carbonase ous.
4900-5000
              100% SHALE, as above.
5000-5100
              100% SHALE, as above.
5100-5200
              100% SHALE, light gray, silty, dark gray to black, carb-
              011&C0 01L8
              100% SHALE, dark gray to black, silty to carbonaceous.
5200-5300
              100% SHALE, light gray, silty to dark gray, carbonaceous.
5300-5340
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5340-5360 5% SILTSTOE, light gray, shaly, dense, tight w/shale laminations. 95% SHALE, gray silty to carbonaceous. 5360-5390 100% SHALE, gray to black, silty to carbonaceous. Trace of SILTSTONE. 5390-5400 109 STLISTONE, light gray to light tan, sandy, shaly, laminated, dense, tight, slightly carbonaceous. 90% SHALE, gray to black, silty to carbonaceous. 20% SILTSTONE, tan, shaly, dense, tight, with faint oil 5400-5410 stain and dull yellow fluorescence, 5410-5430 10% SILTSTONE, as above. 90% SHALE, as above. 5430-5hho 59 SILTSTONE, as above 95% SHALE, as above. 15% SILTSTONE, as above (in laminations in shale) 5440-5450 85% SHALE, as above. 5450-5470 10% SILTSTONE, light gray to light tan, sandy, shaly, laminated, dense, tight with dull yellow fluorescence and very faint cut, 90% SHALE, dark gray to black, silty to carbonaceous. 5470-5480 5% SILTSTONE, as above. 95% SHALL, as above. 5480-5490 10% SILTSTONE, as above. 90% SHALE, as above. 5490-5500 15% SILTSTUNE, as above 85% STALE, as shove. 10% STLTSTONE, tan-gray, laminated, shaly, dense tight, 5500-5510 hard. Duli yellow fluor,, very faint cut. 90% SHAIE, gray to black, silty to carbonaceous. 5510-5530 5% SILTSIONE, as above. 95% SHALE, as above. 5530-5565 TR SILTSTONE, as above. 100% SHALE, as above. Abundant bentonite. 100% SHALE, gray silty to black, carb. Trace SILTSTONE. *5***5**65-5580 5580-5610 100% SHALD, as above w/traces of white, silty SAMDSTONE. 5610-5630 100% SHALE, gray to black, silty to carbonaceous, abundant bentonite, traces of white, glauconitic, fine grained, argillaceous sandstone. **563**0-5660 100% SHALE, as above w/traces of SAMDSTONE. 5660-5300 100% SHAIE, light gray to black, some silty, some clayey and bentonitic, some carbonaceous. 5800-5850 100% SHALE, light to dark gray, silty to carbonaceous. Abundant fluorescent hentonite. 5850-5900 95% STALE, as above. No bentonite. 5% LIMESTONE, tan, earthy, argillaceous. 5900-5920 10% LIMESTONE, tan to light gray, xlyn, dense, tight. 90% STALE, gray to black, silty to carbonaceous. 5920-6010 100% SHALE, as above. 6010-6100 100% SHALE, black, splintery, brittle, carbonaceous. Trace of light gray, fluorescent bentonite.

6100-6120 5% SANDSTONE, white-light gray, fine grained, dense, tight, calc. 95% SHALE, black, carbonaceous. 6120-6150 100% SHALE, as above w/traces of light gray, fluorescent bentonite. 6150-6200 5% LIMESTONE, mettled, dark brown, dense, argillaceous, tight. 95% SHALE, as above. 100% SHALE, black, splintery, carbonaceous with traces **6200=6220** of fluorescent bentonite. 5220-6230 100% SHALE, as above with abundant fluorescent bentonite. 6230-6275 100% SHALE, black, carbonaceous. 6275-6285 100% SHALE, as above. Trace tan zlyn LINESTONE. 6265-6305 100% SHALE, black, carbonaceous, w/abundant bentonite. 6305-6310 75% SHALE, as above, 25% SANDSTONE, white, f. to medium grained, clean, perous, no et er fluor. 6310 **a** 6315 Depth Cerrection Core #1 6315-6348 Recovered 331 Core #2 6348-6385 Recovered 291 6385-6390 100% SHALE, black, carbonaceous. 6390-6395 25% SANDSTONE, light gray, fine to med. grained, fairly clean, glassy, fair porosity. No shows. 75% SHALE, black carbonaceous. 6395-Circulating sample 40% SANDSTONE, as above. About 10% fluorescent. 60% SHALE, as above. Care #3 6396-6417 Recovered 12.4' Core #4 5417-6470 Recovered 531 Core #5 6470-6495 Recovered 24.21 6495-6500 25% SANDSTONE, white, coarse grained, glassy, clean, porous, hard, dense. 75% SHALE, black, carb. **5500-**6520 10% SANDSTONE, as above. 90% SHALE, as above. 6520-6525 10% SHALE, green, hard, silicious. 10% SANDSTONE, as above. 30% SHALE, as above. 6525-6528 20% SHALE, graene 90% SHALE, black

TD 6528 in Morrison formation