LARGO PROSPECT

JICARILLA APACHE TRIBE NO. 1
TRACT NO. 208

SEP 28 1916

FARMINGTON, NEW MENO

SW NE SW Sec. 25, T. 24N., R. 4W. RIO ARRIBA BOUNTY, NEW MYXICO

S WE RE ALGUST 7, 1956

200 GETED AUGUST 17, 1956

CAMOT ALACTEES & VELVAR 1. SESTAFSUO

Sand, white to gray and tan, corse to very course, ancular to 0 - 40sub-angular, poorly sorted. 40 - 70As above. Sand, as above and shale, gray. 70 - 100 As above, less shale, gray; s me sandstone, gray, salt and pepper, 100 - 130very fine grain, silty, very calcareous. Sand, white to tan, course, angular to sub angular; some shale, 130 - 160 gray. 160 - 190As above. Sand, white to tan, course, angular to sub-angular; some shale, 190 - 205 gray; little shale, red; some sandstone, rav, salt and pepper, very fine grain, silty. 205 - 220 Missing sample. Shale, gray to varicolored; little sand as above; much cement 220 - 250 and other plug material. As above. 250 - 240bandstone, white, medium grain, sub-angular; little shale, gray 240 - 250and varicolored. 250 - 230As above. As above. 260 - 270Shale, as a ove; little sandstone as above. 270 - 280280 - 290AS BOVO. 290 - 300 As above. Shale, as above; increase in shale, maroon. 500 - 310 Shale, gray and varicolored, some silty. 510 - 520As above. 320 - 350 550 - 540 As above. Shale, gray and varicolored, some silty; little sandstone, gray 340 - 350salt and pepper, vory fine to fine grain.

As above.

**350 - 360** 

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360 - 370
               As above.
370 - 580
                As above.
380 - 590
               As above,
590 - 400
               As above.
400 - 410
               As above.
410 - 420
               As above.
420 - 430
               As above, sandstone, increasing.
450 - 440
               Sandstone, as above; some shale, as above.
440 - 450
               As above.
450 - 460
               As above.
460 -470
               Shale, as above; little sandstone, as above.
470 - 480
               As above.
480 - 490
               Shale, gray and varicolored; little sandstone, gray, salt and
               pepper, very fine to fine grain.
490 - 500
               As above, sandstone increasing.
500 - 510
               Sandstone, gray, salt and pepper, medium to course grain,
               angular to sub-angular; little shale, gray and varicolored.
510 - 520
               As above, shale increasing.
520 - 530
               As above.
530 - 540
               As above.
540 - 550
               As above, shale increasing.
550 - 560
               As above, sandstone increasing.
560 - 570
               As above, sandstone increasing, fair to good perosity.
570 - 580
               As above, shale increasing.
               Shale, as above; little sandstone, as above.
580 - 590
590 - 600
               As above.
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As above, sandstone increasing.

600 - 610

- 610 620 Sandstone, as above; little shale, as above.
- Sandstone, gray, salt and pepper, medium to course grain, subangular; shale, gray and verticolored.
- 630 640 As above, sandstone increasing.
- 640 650 As above, sandstone increasing.
- 650 660 as above.
- 660 670 As above, shale increasing.
- 670 680 Missing sample.
- 680 690 Shale, as above; little sandstone, as above.
- 690 700 As above.
- 700 710 dissing sample.
- 710 720 Shale, as acove and sandatone, as above.
- 720 730 As above.
- 730 740 Sandstone, as a ove; little shale, as above.
- 740 750 Shale, as above and sandstone, as above.
- 750 760 As abuve.
- 760 770 Sandstone, gray, salt and pepper, medium to course grain, subangular; shale, gray and varicolored.
- 770 790 As able o, slight shale increase.
- 780 790 Sandstone, as above; little shale, as above.
- 730 800 As above.
- 300 310 Shale, as above; sime sandstone, as above.
- 810 820 as above.
- .20 830 As above.
- 330 40 Sandstone, as above; some shale, as above.
- 840 350 As above; shale increasing.
- 350 60 As above, shale increasing.

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860 - 870
               As above.
               As above.
870 - 880
880 - 890
               As above.
               Sandstone, as above; little shale, as above.
890 - 900
               Sandstone, gray, salt and pepper, medium to course grain, sub-
900 - 910
               angular; little shale, gray and varioolored.
               As above.
910 - 920
920 - 950
               As above, shale increasing.
               As above, shale increasing.
950 - 940
               As above, sandstone increasing.
940 - 950
               As above.
950 - 960
               Shale, gray and varicolored; some sandstone, as above.
960 • 970
               As above, sandstone increasing.
970 - 950
980 - 990
               As above.
               As above, shale increasing.
990 - 1000
               Shale, gray and varicolored; little sandstone, gray, salt and
1000 - 1010
               pepper, medium to course grain, sub-angular to angular.
                As above.
1010 - 1020
1020 - 1050
                As above.
1050 - 1040
                As above.
                Sandstone, as above; little shale, as above.
1040 - 1050
                As above, slight; shale increasing.
1050 - 1060
                As above.
 1060 - 1070
                As above, slight; sandstone increasing.
 1070 - 1080
                As above, shale increasing.
 1080 - 1090
                As above, sandstone increasing.
 1090 - 1100
                As above, shale increasing.
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1100 - 1110

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1110 - 1120 As above, sandstone increasing.
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1150 - 1140 As above, slightly shale, increasing.

1140 - 1150 Sandstone, gray, salt and pepper, medium to course grain, subangular to angular; little shale, gray and varicolored.

1150 - 1160 Shale, as above and sandstone, as above.

1160 - 1170 As above.

1170 - 1190 As above.

1180 - 1190 As above.

1190 - 1200 As above; trace coal.

1200 - 1210 Sandstone, as above; little shale as above.

1210 - 1220 As above, slight stale increase.

1220 - 1250 As above.

1250 - 1240 Shale, as above; some sandstone, as above.

1240 - 1250 As above, sandstone increasing.

1250 - 1260 As above, shale increasing.

1260 - 1270 As above.

1270 - 1280 As above.

1280 - 1290 Shale, gray and varicolored; some sandstone, gray, salt and pepper, fine to course grain, sub-angular.

1290 - 1300 As above.

1300 - 1310 As above, slight sandstone increase.

1510 - 1320 As above, shale increasing.

1320 - 1830 As above, slight sandstone increase.

1550 - 1540 Sandstone, as above; some shale, as above.

1340 - 1550 Shale, as above; some sandstone, as above.

1850 - 1860 As above, shale increase.

1360 - 1570 As above.

1370 - 1580 As above, slight sandstone increase.

1580 - 1590 As above.

1590 - 1400 As above.

1400 - 1410 As above, shale increasing.

1410 - 1420 As above.

1420 - 1480 Shale, gray and varicolored; little sandstone, gray, salt and pepper, fine to course grain, sub-angular.

1450 - 1440 As above, sandstone increase.

1440 - 1450 As above, shale increase.

1450 - 1460 As above, slight sandstone increase.

1460 - 1470 As above, sandstone increase. (little sandstone, pyritic)

1470 - 1480 As above, slight shale increase.

1480 - 1490 Shale, as above; very little sandstone, as above.

1490 - 1500 As above.

1500 - 1510 As above.

1510 - 1520 As above.

1520 - 1550 As above, slight sandstone increase.

1550 - 1540 As above.

1540 - 1550 As above, shale increase.

1550 - 1560 As above.

1560 - 1570 Shale, gray and varicolored; little sandstone, gray, salt and pepper, endium to course grain, sub-angular to angular.

1570 - 1580 Sandstone, as above and shale, as above.

1580 - 1590 As above.

1590 - 1600 Shale, as above; some sandstone, as above.

1600 - 1610 As above.

1610 - 1620 As above.

1620 - 1650 As above, slight sandstone increase.

1680 - 1640 As above.

1640 - 1650 As above, slight sandstone increase.

1650 - 1660 As above.

1660 - 1670 As above, shale increase.

1670 - 1680 As above,

1680 - 1690 As above.

1690 - 1700 As above, slight sandstone increase.

1700 - 1710 Shale, gray and varicolored; little sandstone, gray, salt and pepper, medium to course grain, angular to sub-angular.

1710 - 1720 . As above, slight sandstone increase.

1720 - 1750 As above, slight sandstone increase.

1750 - 1740 Sandstone, as above and shale, as above.

1740 - 1750 As above, sandstone increase.

1750 - 1760 As above, shale increase.

1760 - 1770 Shale, as above; some sandstone, as above.

1770 - 1780 As above.

1780 - 1790 As above, sandstone increase.

1790 - 1800 As above.

1800 - 1310. As above.

1810 - 1820 As above, increased shale.

1320 - 1880 Shale, gray and varicolored; little sandstone, gray, salt and pepper, fine to course grain, sub-angular to angular.

1850 - 1840 As above, slight sandstone increase.

1840 - 1850 As above, slight shale increase.

1850 - 1860 As above, slight sandstone increase; trace coal.

1860 - 1870 As above.

1370 - 1880 As above.

1880 - 1890 As above, sandstone increasing.

1890 - 1900 As above.

1900 - 1910 As above, slight shale increase.

1910 - 1920 As above.

1920 - 1930 As above, slight shale increase.

1980 - 1940 As above.

1940 - 1950 As above.

1950 - 1960 As above.

1960 - 1970 Shale, gray and varioolored; little sandstone, fine to course grain, gray, salt and pepper, sub-rounded to sub-angular.

1970 - 1980 As above, slight shale increase.

1980 - 1990 As above.

1990 - 2000 As above.

2000 - 2010 As above.

2010 - 2020 As above, very slight sandstone increase.

2020 - 2030 Hissing sample.

2050 - 2040 Shale, gray and varicolored; little sandatone, gray, salt and pepper, fine to course grain, sub-rounded to sub-angular.

2040 - 2050 As above.

2050 - 2060 As above, slight sandstone increase.

2080 - 2070 As above.

2070 - 2080 As above, sandstone increasing.

2080 - 2090 As above.

2090 - 2100 As above.

2100 - 2110 Shale, gray and varicolored; little sandstone, gray, salt and pepper, fine to course grain, sub-rounded to sub-angular.

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2110 - 2120
               Shale, gray and varicolered; little sandstone, gray, salt and pepper,
               fine to course grain, sub-rounded to sub-angular.
2120 - 2130
               As above, trace coal.
2150 - 2140
               As above.
2140 - 2150
               As above, sandstone increasing.
2150 - 2160
               As above, slight sandstone increase.
2160 - 2170
               As above, shale increase.
2170 - 2180
               As above.
2180 - 2190
               Missing sample.
2190 - 2200
               Shale, gray and varicolored; little sandstone, gray, salt and pepper,
               fine to course grain, sub-rounded to sub-angular.
2200 - 2210
               As above.
2210 - 2220
               As above.
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fine to course grain, sub-rounded to sub-angular.

As above, slight sandstone increase.

As above, slight shale increase.

As above, sandstone increasing.

As above, sandstone increasing.

As above, shale increase.

As above, shale increase.

Shale, gray and varicolored; little sandstone, gray, salt and pepper,

2220 - 2230

2250 - 2240

2240 - 2250

2250 - 2260

2260 - 2270

2270 - 2280

2280 - 2290

2290 - 2300

2300 - 2310

2510 - 2520

2520 - 2330

2530 - 2540

2340 - 2350

2350 - 2360

As above.

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2360 - 2370 As above.
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2570 - 2580 As above, slight sandstone increase.

2580 - 2590 Shale, gray and varicolored; little sandstone, gray, salt and pepper, fine to source grain, sub-rounded to sub-angular.

2390 - 2400 As above, slight shale increase.

2400 - 2410 Sandstone, as above and shale, as above.

2410 - 2420 Shale, as above and some sandstone, as above.

2420 - 2450 As above, shale increase.

2450 - 2440 As above.

2440 - 2450 As above.

2450 - 2460 As above.

2460 - 2470 As above.

2470 - 2480 As above.

2480 - 2490 As above, sandstone increasing.

2490 - 2500 As above, shale increasing.

2500 - 2510 As above, sandstone increasing.

2510 - 2520 As above, shale increasing.

2520 - 2550 Shale, gray and varicolored; some sandstone, gray, salt and pepper, fine to course grain, sub-rounded to sub-angular.

2530 - 2540 As above, sandstone increasing.

2540 - 2550 As above.

2550 - 2560 As above.

2560 - 2570 As above, shale incressing.

2570 - 2580 As above.

2580 - 2590 As above.

2590 - 2600 As above, slight sandstone increase.

2600 - 2610 As above, slight shale increase.

2610 - 2620 As above, sandstone increasing; trace sandstone, pyritic.

2620 - 2630 As above, slight shale increase.

2650 - 2640 As above, sandstone increasing.

2640 - 2650 Sandstone, as above; trace sandstone, pyritie; some shale, as above.

2650 - 2660 As above.

Shale, gray and varicolored; some sandstone, gray, salt and pepper, medium to course grain, sub-rounded to angular; trace sandstone, pyritic; trace coal.

2670 - 2680 As above, sandstone increasing; trace coal and shale, carbonaccous.

2680 - 2690 As above, sandstone increasing; trace sandstone, pyritic.

2690 - 2700 As above, shale increasing; trace sandstone, pyritic.

2700 - 2710 As above, trace sandstone, pyritic.

2710 - 2720 As above, shale increasing; trace shale, carbonaceous (?)

2720 - 2730 As above, sandstone increasing.

2730 - 2740 As above, slight increase in sandstone, pyritic.

2740 - 2750 As above.

2750 - 2760 As above, slight shale increase.

2760 - 2770 As above, slight increase in sandstone, pyritic; trace coal.

2770 - 2780 As above, shale increasing.

2780 - 2790 As above.

2790 - 2800 As above.

Shale, gray to dark gray, varicolored (mostly light green), some silty; little sandstone, white to gray, salt and pepper, fine to course grain, sub-rounded to sub-angular.

2810 - 2820 As above.

2820 - 2850 As above, slight sandstone increase; trace shale, carbonaceous.

2850 - 2840 As above, slight shale increase; trace shale, carbonaceous; trace sandstone, pyritic.

2840 - 2850 As above, trace coal; trace sandstone, pyritic.

2850 - 2860 As above, slight coal increase and shale, carbonaceous.

- 2860 2970 As above, slight coal incresse.
- 2870 2880 As above, less coal and shale, carbonaceous
- 2880 2890 As above; slight increase coal and shale, carbonaceous; trace andstone, pyritic.
- 2890 2900 As above; coal increase.
- 2900 2905 As above, coal increase to over 25%.
- 2905 2910 As above, much less coal.
- 2910 2915 As above, slight coal increase.
- 2915 2920 As above, slight coal increase.
- 2920 2925 As above, slight coal decrease.
- 2925 2930 As above, slight coal decrease; sandstone increase.
- 2950 2955 As above, sandstone decrease; coal increase to over 75% of sample.
- 2935 2940 As above, coal increase to 90% of Sample.
- 2940 2945 Coal and some shale, carbonaceous; some shale, gray.
- 2945 2950 As above, slight coal increase.
- 2950 2960 As above.
- 2960 2970 As above; little sandstone, ray, salt and pepper, fine grain, sub-rounded to rounded.
- 2970 2990 As above; shale increase.
- 2980 2990 As above.
- 2990 2995 Coro # 1, cut 5'; recovered 4.65' shale, gray, containing abundant carbonaceous plant remains.
- 2995 2996 Core # 2, cut 15'; recovered 12.75'; .25' shale, gray, containing coal particles; .50' shale, gray with thin coal stringers.
- 2096 2997 Shale, gray, containing coal particles, silty to very fine sandy.
- 2997 2993 As above.
- 2998 2999 As above.
- 2999 3000 As above.
- 3000 5001 As above.

Shale, gray, containing coal particles, silty to very fine sandy with thin stringers of sandstone, gray, very fine grain to fine grain, calcareous, becoming less sandy toward base.

3002 - 3003 As above.

3005 - 3004 Interlaminated coal, shaly; shale, gray, containing particles of coal. (Coal contains tiny seems of resincus material which fluoresces light blue.)

5004 - 3005 As above.

3005 - 3006 Shale, carbonaceous, containing particles of coal.

5006 - 5007 Shale, brown to gray, containing particles of coal; shale, dark gray, containing particles of coal, very carbonaceous to coal, shaly.

5007 - 5008 As above.

3008 - 3009 Core # 5, but 10'; recovered 5.5'; coal with thin veins resinous material (fluoresces light blue).

5009 - 3010 As above.

3010 - 5011 As above.

3011 - 3012 As above.

3012 - 3013 As above.

3013 - 3014 As above.

**3014** - 3015 As above.

3015 - 5016 As above.

3016-3017 As above.

**3017 - 301**8 As above.

Sol8 - 3019 Core # 4, cut 10'; recovered 7.75'; (0.5' recovered on Core # 5)
Loss of 1.75' probably occurs within upper 5' of interval which
are here represented by 2" colal; 2" scale, brown to gray, containing particles and partings of coal; 2" shale, gray, almost
entirely bentonite; 6" coal.

5019 - 5020 As above.

3020 - 3021 As above.

5021 - 3022 Coal with stringers of shale, dark gray to black, carbonaceous.

5022 - 5023 Shale, gray to dark gray containing abundant carbonaceous material in upper 6".

5025 - 5024 Shale, dark gray.

3024 - 3025 As above.

3025 - 3026 Shale, dark gray, slightly carbonaceous.

5026 - 5027 Upper 5" = Shale, dark gray, slightly carbonaceous.

Lower 7" = Sandstone, gray, salt and pepper, fine grain, subrounded. (Pictured Cliffs)

5027 - 3028 Sandstone, light gray to gray, salt and pepper, fine grain, sub-rounded with an shally streak at 5027.2 containing carbonaceous fragments.

5028 - 3029 Core # 5, cut 12'; recovered 12.5'; (0.5' from Gore # 4), sandstone, gray, salt and pepper, fine grain, sub-rounded.

5029 - 5050 Sandstone, gray, salt and pepper, fine grain, sub-rounded with .5" shale, dark gray, slightly carbonaceous at 3029'.

5050 - 3031 As above.

5051 - 3032 As above.

5052 - 5053 As above with thin gray shale parting at 30331.

5035 - 3034 Sandstone, gray, salt and pepper, fine grain, sub-rounded, some friable.

5054 - 3055 Sandstone, gray, salt and pepper, fine grain, sub-rounded, containing several particles of coal.

3055 - 3056 Sandstone, gray, salt and peoper, fine grain, sub-rounded, with shale streaks in upper 5".

5056 - 3037 Sandstone, gray, salt and pepper, fine grain, sub-rounded (finer grained 3056 to 3056.751)

3037 - 3038 Sandstone, gray, salt and pepper, fine grain, sub-rounded, containing shale particles at 3037!

3038 - 3039 andstone, gray, salt and pepper, fine grain, sub-rounded.

3089 - 3040 As above.

3040 - 3041 Sore 6 6, cut 7'; recovered 7'; sandstone, gray, salt and pepper, fine grain, sub-rounded with black shale partings at 3040.3' and 3040.4'.

- 5041 3042 Sandstone, gray, salt and pepper, fine grain, sub-rounded.
- 3042 3045 As above.
- 5043 3044 Sandstone, gray, salt and pepper, fine grain, sub-rounded, be-coming more black (more carbonaceous) between 3043.5' and 3044'.
- 5044 5045 Sandstone, gray, salt and pepper, fine grain, sub-rounded, shaly and black 5044.5'.
- 3045 3046 Sandstone, gray, salt and pepper, fine grain, sub-rounded.
- 3046 3047 As above.
- 5047 5048 Core # 7, cut 15'; recovered 121'; sandstone, gray, salt and pepper, fine grain, sub-rounded, with thin coal laminae at 3047.4'.
- 5048 5049 Sandatone, gray, salt and popper, fine grain, sub-rounded.
- 5049 5050 Sandstone, gray, salt and pepper, fine grain, sub-rounded, with carbonaceous particles and partings.
- 5050 5051 Sandstone, gray, salt and pepper, fine grain, sub-rounded, looks wet on fresh break.
- 5051 = 3052 Sandstone, gray, salt and pepper, fine grain, with carbonaceous particles and partings.
- 3052 3053 As above.
- 5058 5054 Sandstone, gray, salt and pepper, fine grain, sub-rounded.
- Sandstone, fray, salt and pepper, fine rain, sub-rounded 5054.0 3054.1 shale, light gray, silty 3054.1-8055.0
- 5055 5056 Shale, silty grading downward into shale, gray. (not silty)
- 5056 5057 Sandstone, gray, salt and pepper, fine grain, sub with thin laminae of shale, gray, silty.
- Shale, dark gray to gray, some silty; sandstone, gray, salt and peoper, fine grain 3057.1 3057.2.
- 3058 3059 Shale, gray to dark gray, some slightly silty.
- 5059 3060 Shale, dark gray, 5059.0 3059.1; sandstone, gray, salt and pepper, fine grain, sub-rounded.
- 5060 3061 Sandstone, way, salt and pepper, fine grain, sub-rounded.
- 5061 5062 As above. (3059.7 to 5062 recovered with Core # 8.)

5062 - 5063 Core # 8, cut 12'; recovered 13.5' (1.5' of Core # 7); sandstone, gray, salt and pepper, fine grain, sub-rounded, looks wet on fresh break, no fluorescence.

3065 - 3064 As above.

3064 - 3065 As above.

3065 - 3066 As above.

3066 - 3067 As above.

3067 - 3068 As above.

3068 - 3069 As above.

3069 - 3070 As above.

5070 - 3071 As above.

3071 - 3072 As above.

3072 - 3073 As above.

3073 - 3074 As above.

5074 - 5075 Core # 9; cut 14'; recovered 14'; shale, gray, silty, 5074.0' to 5074.2' grading downward into sandstone, gray, salt and pepper, fine grain, sub-rounded.

5075 - 3076 Sandstone, gray, salt and pepper, fine gray, sub-rounded, becoming darker gray, 3075.8' to 3076.0' looks wet on fresh broak.

5076 - 5077 Sandstone, gray (darker, some brown to gray), salt and pepper, fine grain, sub-rounded, fractured vertically thru entire foot (l'fracture).

5077 - 3078 Sandstone, gray (light again), salt and pepper, fine grain, sub-rounded; looks wet on fresh break.

3078 - 5079 As above.

3079 - 3080 As above.

50:0 - 3081 As above.

5081 - 3082 Sandstone, gray, salt and peoper, fine grain, sub-rounded, containing large shale fragments; at 5081.1 to 3081.5 shale, dark gray.

5082 - 3083 Sandstone, gray, salt and pepper, fine grain, sub-rounded; looks wet on fresh break, no fluorescence.

3083 - 3084 As Above.

- 3084 3085 As above.
- 3065 5086 As above.
- 5086 5087 As above.
- 5087 5088 As above.
- 5088 5089 Core # 10; out 14'; recovered 14'; sandstone, gray, salt and pepper, fine grain, sub-rounded; looks wat on fresh break, no fluorescence.
- 5089 5090 As above.
- 5090 5091 5090.0 to 5090.2, sandstone, gray, salt and pepper, fine grain, sub-rounded, wet: 5090.2 to 5091.0, sandstone as above, with black shale streaks.
- 5091 5092 Shale, dark gray to black with streaks of sandstone, gray, salt and pepper, fine grain, sub-rounded.
- 5092- 5095 Sandstone, gray, salt and pepper, fine grain, sub-rounded with streaks of shale, dark gray at 5092.0 to 5092.2 and 5092.4 to 5092.6.
- 5095 5094 Sandstone, gray, salt and pepper, fine grain, sub-rounded, 5095.0 to 5095.7; shale, dark gray, 5095.7 to 5094.0.
- Sandstone, gray, salt and pepper, fine grain, sub, little carbonaccous, slightly wet, 5094.0 to 5094.8; shale, dark gray, 5094.8 to 5095.0.
- 5095 5096 Shale, gray, silty and shale, dark gray.
- 5096 3097 Shale, dark gray with streak of sandstone, gray, salt and pepper, fine grain, sub-rounded, slightly wet, 5096.5 to 3096.5.
- 5097 5098 Shale, dark gray, 5097.0 to 5097.3; sandstone, gray, salt and pepper, fine grain, sub-rounded, 5097.3 to 5098.0 slightly shaly in top 0.5'.
- 5098 5099 Sandstone, gray, salt and pepper, fine grain, sub rounded, 3098.0 to 5098.6 with calcareous streak at 5098.1; shale, dark gray, 5098.6 to 5099.0 with streaks of sandstone.
- 5099 5100 Shale, dark gray, containing carbonaceous particles with thin streaks sandstone, gray, very fine grain throughout.
- 5100 5101 As above.
- 5101 5102 As above.