NORTH DAKOTA GEOLOGICAL SURVEY CIRCULAR NO. 200

Summary of the North Plains Petroleum, Inc. - C.O. Haugen No. 1 Grand Forks County, North Dakota Well No. 1415 - Permit No. 1427
by Dan E. Hansen
June 17, 1958

The North Plains Petroleum Inc. - C.O. Haugen No.1, Grand Forks County. Location: 660 feet from the south line and 660 feet from the east line of section 22, T. 152N., R. 54W. Elevation: 1015 G.L.

The North Plains Petroleum, Inc. - C.O. Haugen was, spudded April 3, 1957; drilled to a total depth of 1150 feet; and completed as a dry hole April 15, 1957. One core was cut from 992-1002 with no recovery. No mechanical logs were run.

PLUGGING RECORD:
150 feet 8 " casing left in hole, 2 sacks cement top of casing, 15 sacks cement bottom of casing; 15 sacks cement at 625 (top of Red River); and 15 sacks cement at 992 (top of Winnipeg sandstone). Mud plugs were used.

Formation tops were determined from cuttings. Colors were determined from the 1948 Rock-Color Chart which was distributed by the National Research Council, Washington D.C.

FORMATION TOPS

| Cretaceous System |  | 310 |
| :---: | :---: | :---: |
|  | sandstone | 390 |
| Ordovician System |  |  |
| Red River Formation |  | 625 |
| Winnipeg Formation |  | 970 |
| 0-40 | Sands, very co light yellowish Medium light | aine dol tac |
| 40-50 | Sand, as above carbon content | much <br> high |
| 50-80 | Sandy, as above 70-80. | $1 \mathrm{pe}$ |
| 80-120 | Sand, chiefly yellowish gray | $\begin{aligned} & \text { rale } \\ & \text { te. } \end{aligned}$ |
| 120-130 | Gravel, small and chiefly gr | $\begin{aligned} & \text { of } \\ & \text { e. } \end{aligned}$ |
| 130-140 | Clay, medium g | b.bly |
| 140-220 | Gravel, shale, pebbles. Incre Generally the |  |
| 220-310 | Gravel and sand fragments appe | $\begin{aligned} & \text { tz } p \\ & \text { ch } p y \end{aligned}$ |
| 310-370 | Sandstone, medi grained, very | $\begin{aligned} & \text { ay in } \\ & c, \text { sh } \end{aligned}$ |


| 370-390 | Sample as above and cave. |
| :---: | :---: |
| 390-500 | Sandstone, fine-coarse-grained, rounded to angular, pyritic, quartzose. Chiefly fine-medium grained. |
| 500-540 | Sandstone, as above, but chiefly coarse-grained. |
| 540-560 | Sandstone, as above, stained orange with traces light-orange red clay. |
| 560-570 | Sandstone, fine-medium-grained, calcareous cement, very friable, very light orange color, quartzose. |
| 570-625 | Sandstone, and clay, moderate reddish brown. Sandstone, as above, chiefly medium-grained, rounded. Traces white, angular chert at 595-605. Pyrite. |
| 625-635 | Chert, white to very light gray. |
| 635-680 | Limestone, moderately dolomitic, moderate reddish orange (light yellowish gray to white, stained). Chert as above. The limestone is soft, granular, crystalline, very-fine-grained. Quartz grains, as above. |
| 680-740 | Limestone, very pale orange, fine-coarse-grained, granular, crystalline, dolomitic. Traces chert and limestone as above. |
| 740-760 | Limestone, vary pale orange to whitish yellow, fine-grained, granular, moderately dolomitic. Finer grained and less dolomitic than limestone above. |
| 760-795 | Limestone, grayish orange pink to very pale orange, fine-grained, granular occasionally coarse-grained, slightly to moderately dolomitic. |
| 795-805 | Limestone, very pale orange, fine-grained, granular to chalky with intermixture of coarse-grained, slabby, slightly to moderately dolomitic. |
| 805-820 | Limestone, moderate orange pink, fine-coarse-grained, granular to crystalline, slabby, chalky, moderately to slightly dolomitic. Pale red shale. |
| 820-840 | Limestone, very pale orange, otherwise as above. |
| 840-940 | Limestone, grayish orange pink to very pale orange fine-grained, granular and chalky to crystalline, slabby, moderately dolomitic, slightly shaly. Poorly washed samples, much red staining. |
| 940-950 | Limestone, as above, poorly washed samples. Much fine-mediumgrained, loose quartz grains. |
| 950-960 | Limestone, as above. Traces white chert. |
| 960-970 | Limestone, light brownish gray to light gray, fine-grained, granular, argillaceous to crystalline, slabby. |
| 970-990 | Limestone, as above, slightly fossiliferous (bryozoan fragments) and greenish gray shale. |
| 990-995 | Shale, as above, and sandstone, grayish orange, calcareous cement, friable, fine-medium-grained, angular to rounded, quartzose. |
| 995-997 | Sandstone, as above. |
| 997-1005 | Limestone and chert, as above. Traces of shale and sandstone, as above. |
| 1005-1010 | Sandstone, pale red, loose grains of fine-coarse-grained quartz, iron-stained, angular to rounded. |
| 1010-1055 | Sandstone, pale yellowish orange, medium-grained, loose, rounded to angular quartz grains. |
| 1055-1060 | Sandstone, grayish red, medium-grained, friable, calcareous cement, quartzose, rounded. |
| 1060-1080 | Sandstone, pale yellowish orange, as above. Limestone, very dolomitic, fine-grained, dense, crystalline. |


| 1080-1095 | Limestone, as above, with small amounts of dark greenish gray, <br> slightly calcareous shale. <br> Shale, dark greenish gray, splintery, waxy. Much limestone from <br> above. Poor samples, much cave. |
| :--- | :--- |
| $1130-1145$ | Sandstone, light gray, quartzose, loose grains of fine- to <br> coarse-grained, clear and white, rounded to angular quartz grains. |
| Small amounts of pyrite. |  |

