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Preliminary Report on Pickle-Crow Gold Area

Government Geological Party Made Examination of grees. The localization of the ore-shoots Pickle Crow Area in the Patricia District During the Past Summer. Preliminary Report Just Issued.

(By Jas. E. Thomson)

perty on the east. ment was done on the Roeanor, Crow in or fairly near this band.

ried on by means of geological mapping, which has offset the iron formation. feet, were found. These made a total electrical, geophysical, and dip-needle surveys, and diamond drilling.

General Geology

The geology and the gold deposits XXXIX, Part 2, 1930.

low structures, but may be locally ell) vein. sheared and drag-folded. In a few | 2. Sulphide bodies occupying frac- feet. On the surface it extends 200 feet places bands of diorite strike parallel tures in iron formation or replacing west of any undergrond exploration. with lesser amounts of basic lavas. to the general trend of the lavas and certain parts of this rock:—In this The vein strikes roughly N.65°. are probably sill-like intrusives of about group belong the ore bodies at the 75°E., but in places is much contorted cified sheared zone with pyrite minerthe same age and composition as the Central Patricia mine. Here, pyrite, by drag folds. The general dip is about

from tiny patches only a few inches gold is associated, especially the latter the enclosing rock formations, which wide lying between lava flows to bodies two. On the Albany River claims gold have a general northeast-southwest two or three hundred feet in width is also associated to some extent with strike in fts vicinity. The eastern and he is proud to associate himself with can be mapped and rock structures dethat may be traced for several miles. pyrite in iron formation. Sulphide western parts lie in greenstone, and President Roosevelt. We have yet to fined without the costly work of trench- that gawky kid will never make the The traceable horizons may pinch and bodies occur at the Pickle Crow mine the central section is either along the hear from the party of the second part. ing and sinking test pits through the grade." swell or even die out at various places in the iron formation adjacent to the contact of greenstone and iron formaalong the strike but are sufficiently main vein but carry only low values. | tion or entirely within the latter rock. continuous to provide marker horizons 3. Silicified sheared zones in lavas Mine officials estimate that 80 to 85 | Commons on Friday the fact was em- in Canada and was carried out by Hans in the greenstone complex; they afford or at the contact of lavas and tiny per cent. of the ore section lies in phasized that the British people have Lundberg, Ltd., recognized as the sead- ed for Toronto.

irregularly shaped bodies and dikes of River claims, where gold is associated than the part in greenstone. In limited granite, porphyry, and lamprophyre. with pyrite and, to a lesser extent, sections, where ore is being stoped in two distinct types of porphyry occur, a chalopyrite. At the Cohen-McArthur the iron formation, parallel fractures sheared quartz porphyry and massive showing north of the Pickle Crow Mine, filled with quartz veins and stringers syenite or quartz-feldspar porphyry. quartz veins occur in silicified sheared occur across widths of 20 feet or more. North of the Central Patricia mine are zones, are mineralized with arsenopy- Three pronounced drag folds occur sill-like bodits and dikes of quartz por- rite, and contain native gold. phyry, which show various degrees of shearing and alteration to quartzsericite schist. An elongated body of summer a vertical shaft was being sunk quartz with chlorits or tourmaline ocmassive quarty porphyry occurs near in the vicinity of a gold showing pre- cupying narrow fracture planes. Sulthe northwestern extremity of the Al- viously exposed in surface test-pits and phides are comparatively rare, and visbany River and Winoga Patricia claims. West of the Albany River shaft is a small stock of massive quartz feldspar of basic lava flows containing many Winoga Patricia Gold Mines:- The porphyry. Small syenite porphyry small bands of iron formation and ad- company owns a group of nine claims dikes are occasionally found. The lam- jacent to a small stock of massive located immediately east of the Pickle prophyre cuts the granite of the area, quartz-feldspar porphyry. The shaft Crow. These are being actively develand a lamporphyre dike cuts the main | zone lies immediately off the nose of oped by surface-trenching and diavein at the Pickle Crow mine. A dia- the main porphyry mass, where it fin- mond-drilling. Owing to the fact that base dike runs southeastward across geers out into small dikes and irregu- most of the ground is covered by overthe Central Patricia claims east of the larly shaped bodies. At the main sur- burden, a geophysical and electrical mine and is presumably Keweenawan face showing (No. 1 vein), located 200 survey was made during the summer to in age.

Structural Geology

immediately north of the Pickle Crow drilling and which contains gold values. | mond-drilling. The most interesting mine has been folded into a syncline. Drilling at intervals over a distance of values to date have been obtained on the axis of which strikes about N. 45 800 feet to the southwest along the the company's northwestern claim near degrees E. The axial plane is over- strike of No. 1 vein zone has indicated the Pickle Crow boundary and north turned to the north with a dip of about | gold values in a number of places, but | of the band of iron formation. 75 degrees. North and east of the mine these intersections are difficult to cor- Kaw Crow Patricia Gold Mines-This this ryncline noses out, and a series of relate from drilling data, and only un- company owns a large block of claims dip measurements taken on the nose derground work can establish their that surround the Winoga on the south of the folds indicates that it plunges exact relationship. Gold seems to be and east and adjoin the Albany River

beween 45 and 70 degrees. Two hori-During the past summer, a detailed zons of iron formation have been traced geological examination was made of around both limbs of the syncline. most of the properties being actively third and possibly lower horizon exdeveloped in the Pickle-Crow area, ists on either side of the above struc-These extend for about nine miles from ture but has not been traced around the Gateway Patricia claims on the the nose of the syncline. The southwest to the Kaw Crow Patricia pro- eastern band, which may be a limb of the third and lowest prominent horizon The Pickle-Crow area has two pro- of iron formation, has been traced ducing mines, Central Patricia and from a point near the Springer vein Pickle Crow; shaft sinking is under of the Central Patricia Mines across way at the Albany River property and the Pickle Crow, the northern part of the Springer (No. 2) operation of Cens the Winoga Patricia, and the Albany tral Patricia. During the summer a River claims. That this horizon of diamond drilling programme was be- iron formation was the locus of coning carried out at the Gateway Patri- siderable fracturing is shown by the cia, Winoga Patricia, Kaw Crow Patri- fact that numerous veins and sheared der swamp to the east. It has been cia, the Cohen group of claims north zones, including the vein at the Pickle drag-folded and contorted, and the of the Pickle Crow mine, the Suther- Crow mine and the main gold occur- general strike swings around considland group of Coniagas Mines, and the rences on the Albany River, Winoga, Pickle Crow mine. Surface develop- and Springer claims, are located either but local bulges show widths up to 8 hundred feet to the northeast of this, a

River, Pickwick Syndicate, Connell In the vicinity of the Central Patricia quartz, black tourmaline, and traces contain some quartz stringers and Mining and Exporation, Dona Patricia, mine a number of bands of iron formaand other groups of claims. A large tion have also been traced for some part of the country is covered by swamp, distance. Here there is evidence of the vein. muskeg, and overburden. Detailed ex- faulting in an east-west direction along amination of this ground is being car- the Crow river and of cross-faulting

> Veins and Mineralization Gold occurs in several types of de- ounces gold over a width of 14 inches. posits in the area.

and volcanic breccia. The lavas are and some of the veins on the Pickle 400 tons daily. fairly massive and commonly show pil- Crow claims, including the main (How- The vein has been explored under-

The bands of iron formation range rite are the sulphides with which the almost vertical. The vein angles across

the only reliable clues to the details of bands of iron formation:-These may greenstone. It is said that, in general, a King because they want one. A mo- ing organization offering such technical This rock assemblage is intruded by sheared zones occur on the Albany is wider and slightly lower in grade government mustered only five votes. The geophysical survey has now Coach Powers of the Stars joined their

Descriptions of Properties

intersected by diamond drilling. feet northeast of the shaft, results of assist in the drilling campaign. sampling and diamond-drilling to a The exposed rocks are largely basic The interpretation of the geological depth of 136 feet are reported to show lavas with minor amounts of volcanic structure in the area is impeded by lack an average value of \$23.64 a ton across fragmentals. A band of iron formation of rock exposures and the uniformity 5.4 feet for a length of 20 feet. Here runs northeastward across the northof rock types over most of the country. gold occurs in a silicified sheared zone west corner of the property. North of The tracing of horizons of iron forma- with pyrite mineralization; the zone this, an elongated mass of porphyry tion, however, is proving to be of con- strikes N.30 deg.-35 deg. E., and dips and some smaller dikes cut the greensiderable use in showing the deforma- 65 deg.-68 deg. N.W. Seventy feet north stones. tion of the region. By this method it of this lies No. 2 vein, which is said to A number of gold-bearing veins and has been found that the formation have been traced 125 feet by diamond stringers have been intersected by dia-

cified sheared zones in lava.

At the southwestern extremity of the property and about 200 feet from the Winoga Patricia boundary, a silicified sheared zone in greenstone near a small band of iron formation carries gold values, especially where sulphides are

Central Patricia Gold Mines-At the main property the mine has been developed by 8 levels to a depth of 1,000 feet. Up to the present the ore mined has come from above the 500-foot level. Four new levels are now being opened up. During the first nine months of 1936 the mill treated an average of 155 tons daily with an average recovery of \$19.00 per ton.

The ore bodies occur within a band of iron formation, which is bordered by Keewatin greenstone. The iron formation trends about east-west and dips to the north at an angle of about 75 degrees. It ranges in width from 5 feet to about 75 feet and is revealed by surface trenching for 1800 feet. Ore bodies occur in those parts of the iron formation that have undergone fracturing, which has allowed the mineralization solutions to penetrate these openings and replace certain parts of the iron formation. Gold values occur in bodies of sulphides and networks of quartz veinlets containing varying amounts of sulphides. The sulphides are pyrrhotite, arsenopyrite, pyrite, and chalcopyrite. Gold is found in close association with these, especially with syrrhotite and arsenopyrite, and is scarcely ever seen in the visible state. The quartz does not contain much gold.

A number of ore shoots occur along in gold, the band of iron formation, the most productive to date being B and C ore bodies. All these have a definite easterly rake, which averages about 53 des thought to have been controlled by zones of cross-fracturing in the iron formation.

During the summer drifting westward on the 375-foot level disclosed a new ore secton in a band of iron formation with sulphide mineralization similar to the above-mentioned ore

The Springer (No. 2) operation is located about 4 miles east of the main workings. A shaft was sunk 175 ft., and lateral work was done at the 150-foot level on the Springer vein. At present this shaft is being deepened to 500 feet, and other levels will be opened.

occupies a fracture in fairly massive greenstone, has been traced about 350 feet on the surface, but disappears unerably. The vein is generally narrow feet. The vein filling consists of white spicuous amounts in certain parts of

On the 150-foot level four ore shoots, ranging in length from 25 feet to 90

Pickle Crow Gold Mines:-The main 1. Quartz veins occupying fractured vein at the Pickle Crow mine has been of the area have been discussed by M. zones in massive or slightly sheared explored from six levels to a depth of by a dip-needle survey. A series of ex-E. Hurst in the annual report of the lavas: These veins are generally twist- 750 feet. The shaft has recently been ploratory diamond drill holes were put Ontario Department of Mines, Volume ed, contorted, or drag-folded. They con- sunk to 1200 feet, and three new levels down to intersect the iron formation at tain tourmaline, chlorite, and native will be opened up. During the first nine Most of the area is underlain by Kee- gold, but sulphide mineralization is months of 1936 the mill treated an watin rocks, chiefly basic volcanics, rather sparse. This group is represent- average of 146 tons daily, with an av-Interbanded with these lavas are bands ed by quartz veins on the Springer erage recovery of \$30.20 per ton. The of iron formation, agglomerate, tuff, (No. 2) operation of Central Patricia | mill is now being enlarged to handle

ground over a total length of 1500 face-trenching. The rock exposures are chalcopyrite, pyrrhotite, and arsenopy- 75°N.W., but between certain levels is the surface. be mineralized with sulphides. Such the part of the vein in iron formation tion to establish a republican form of service. along the vein, and in the vicinity of these good ore widths are found.

Albany River Mines:-During the Typical vein material is banded white ible gold is not abundant. Gold values

The gold-bearing zone lies in an area are generally consistent along the vein

to the northeast at an angle somewhere associated with pyrite mineralization property on the North. The southwes-

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tern claims tie on to Pickle Crow ground. A considerable part of these claims is covered by overburden, and geophysical and electrical surveys were made of the western part of the group. Development work has been carried on by surface-trenching and diamond-

The rocks on the claims consist largely of Keewatin lavas, agglomerate, and tuff, which are intersected in places by porphyry and rhyolite dikes. Two outcrops of altered sediments and iron formation occur on the southwestern claim of the group.

A drill-hole 100 feet east of the Winoga boundary on claim Pa. 2122 cut a 4-foot ven, which assayed \$8.40 per ton

Gateway Patricia Gold Mines:-The company owns a group of 27 claims, which adjoin the Central Patricia on the west. These claims, which are underlain by Keewatin greenstones, have been explored by an electrical survey, surface-trenching, and systematic diamond-drilling in the drift-covered sec-

Cohen-MacArthur Claims-The Cohen-MacArthur claims lie immediately north of the Pickle Crow and west of the Albany River. A gold discovery was made on this group by Jack MacArthur and opened up by surface-trenching in 1934. The showing was diamond-drilled during the past summer.

The rocks on the claims are largely basic lavas. A siliceous carbonate body in the greenstone extends in an east-The gold-bearing quartz vein, which | 774. On the north side of this body sheared zones occur in the greenquartz veins and stringers. These are mineralized with arsenopyrite and contain some native gold. Gold values have been obtained in the surface trenches over a length of about 150 feet. Twelve series of discontinuous sheared zones of sulphides. Native gold occurs in con- little arsenopyrite. A section across 85 inches in one trench is reported to assay \$9.00 in gold.

Coniagas Mines-During the summer two groups of claims were staked in the northeastern part of the Pickleore length of 198 feet, averaging 2.35 | Crow area by Jack Sutherland for Coniagas Mines. A band of iron formation was traced for a distane of 12,000 feet across the northeasten group of claims intervals along the strike.

Roeanor Gold Mines-The company Research Corporation, Ltd. holds a group of claims which adjoins the Central Patricia on their west boundary and the Kaw Crow on the north. During the summer the claims were prospected and developed by surlargely altered agglomerate and tuff Some quartz veins were found. A silialization was traced and explored on

Ottawa Journal:-Mr. Hepburn says survey, by which method large areas

Mineral Estates Let Drilling Contract

Property has Already Most Extensive Geophysical Survey Given Any Ground in Canada.

(From Financial Review)

With the announcement of plans for an immediate and comprehensive diamond drilling campaign for the holdings of Mineral Estates, Ltd., in the Porcupine field, the operation reaches its most interesting stage to date. A contract for a minimum of 5000 feet of drilling is being negotiated by Mining Research Corporation, Ltd., consulting engineers, and the work is expected to get under way without delay. For months, Mineral Estates has been carrying on a very extensive programme of exploration on its large acreage to the west of Timmins, and results have been such that conditions indicate new history in the making for this premier gold camp.

Probably not more ambitious minemaking project has before occupied the attention of the investing public than the effort of Mineral Estates, Ltd., on its vast stretch of mineral ground west of the Mattagami River. The very acreage of the company's holdings is unique, and the magnitude of the possibilities has aroused interest through out the mining industry. The forthcoming diamond drill campaign can be expected to provide news of profound sig- eral thousand acres of the property to a western exhibition trip at the end nificance to Ontario mining and may of Mineral Estates, Ltd. Correlated with of the season. Smithe thought it write a new chapter in the history of the leading gold province.

For months a programme has been under way which has embraced surface work, a limited amount of diamond drilling, and the most extensive geophysical survey ever conducted in Canada. The enterprise has thus reached the stage where it may be the foundation for not only one mine, but several, if the results achieved to date can be taken as a criterion.

A review of the situation to date may be of assistance in interpreting the significance of anticipated success. It has long been held that the belt of Timiskaming sediments-with which are associated the major producers of the famous Porcupine camp—would be found to extend westward from the present west direction across claims Pa.777 and recognized productive area. There was Y:among geologists and engineers a disposition to seek such extension along stone and contain irregularly located a presumed strike somewhat to the southwest. A very large amount of development funds has been expended by some of the foremost operators on the without any outstanding success.

Adopting a somewhat different view of the conditions, the property of Mineral Estates, Ltd., was acquired on the expectation that the extension of the sediments continues westerly through the townships of Mountjoy. Godfrey and Turnbull, and others to the southwest. Taking the broad view of the exploration possibilities, should such a condition be proven, sponsors of Mineral Estates, Ltd., acquired more than 20 square miles of territory in the townships of Mountjoy, Godfrey, Turnbull, Carscallen, Bristol and Ogden. Then to 50 below. came a programme which has embraced every modern prospecting practice, directed by an organization especially qualified—the staff of Mining

Where practicable, surface work was other sections of the holdings—which were members of the junior outfit. extend for some 14 miles west of Timmins-the amount of overburden dictated different methods. For structural done, and this work definitely indicated now," they suggested. that the sedimentary belt could be traced on the Mountjoy township claims. Then followed a geophysical overburden. This survey, as mentioned, Globe and Mail: In the House of is the largest contract ever undertaken Toronto and pick up some real players.

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geology, it is now possible to plan a diamond drilling campaign with confidence that vein structures and ore Wilf Hannebury of the South Porcupine results will be forthcoming. Hence, with every expectation of success, Min- thrilled by the invitation, responded. eral Estates, Ltd., now enters an ad- It takes two days to get from South vanced stage of exploration and, con- Porcupine to Toronte, but the boys sidering the vast amount of favourable were there just as fast as the trains ground to be developed, places itself would take them. In that first pracamong the most absorbing mining ventures in Canada.

Doran's Great Play Costly for Huggins

The following is from a recent issue cupine. The "boys" learned of his proof The Post-Standard, of Syracuse, N.

(By Louis Kosoff)

Bummer Doran, scintillating left-wing club, but is good enough to get a Maple recruit of the Syracuse Stars, and Leaf contract?" Coach Eddie Powers

Yes, sir, have a real laugh. It's on Powers with these self-same Stars.

Al Huggins quit the Stars at the be- oped, was Huggins' brother. ginning of last season to take a position as hockey and baseball coach of the South Porcupine, Ont., senior amateur

unless you get out your atlas and find the International League South Porcupine. It's way up in the wilds of Ontario, in the heart of the to the extent of several hundred dolgold-mining country, where they play lars. their hockey on natural ice rinks with the temperature anywhere from zero Syracuse training camp at the begin-

industry booming, takes its sports ser- And with the first games, he began to iously. The "boys" are not averse to pop goals and figure in scoring plays. digging up a nugget or two to help some

of the "amateurs" along, Last year South Porcupine had only tered nine goals and is one of the leada fair senior hockey team. It had a ing scorers in the league. were disclosed, in some of which very crack junior outfit, however. Bummer | The whole story of Huggins and his high gold returns were reported. At Doran and Mike Miller of the Stars bet got back to Bummer and to Coach

called in Al Huggins.

"How about trying Doran with the seniors," someone proposed. But Huggins turned thumbs down on

this suggestion. "Doran," he said scathingly, "wh

"No," Huggins said, I'll go down to So a day or two later Huggins start-

Smythe of Toronto Maple Leafs and

traced the desired formation over sev- forces for a series of dills preliminary the surface data and close study of the would be a good idea to try out some youngsters he had beer watching.

Powers suggested Diran, Miller and junior team. The three youngsters tice session Doran rapped home no less than 10 goals, as Powers tells the story.

Smythe and Power looked at each other significantly. A few minutes after the practice they had Doran's name on a contract. Bummer wasn't loathe to spread the

news when he returned to South Por-

motion in short order. They called a hasty meeting with A Huggins "How come, Al" they asked, "that Have a laugh, you hockey fans, with Doran isn't good enough for our senior

Huggins was still keptical.

"Listen," he said, 'that kid won't get continent along such a premise, and Al Huggins, who not so long ago pat- 10 goals all year in the International rolled a left-wing berth for Coach League. I've got you some real players." One of these real players, it devel-

The discussion became hectic. It wound up with Huggins offering to bet anyone in the house that Doran would not get 10 goals in the entire season if You really can't appreciate the story he managed to stay with the Stars in

Huggins promtly found some takers,

Doran reported at the Torontoning of the season and promtly won South Porcupine with the mining himself a place in the Twinks' first line.

The season is new only one quarter gone, and Doran has already regis-

Powers, which may explain why Eddie At the end of the season, the "boys" is as tickled as a youngster with his first pair of skates when Doran raps in one "We want a good senior team next of those trick shots of his. It also may information some diamond drilling was | year. Better start making your plans | explain why Doran always skated back to Powers after he scores and says:

"That's just one more for Al Huggins, coach."

Howey Gold Mines Declares Dividend 2 Cents a Share

Howey Gold Mines Limited has declared a dividend of 2c per share payable February 1, 1937, to shareholders of record December 31, 1936. The dis-At about the same time Conny tribution will make a total of 4c for this year, the previous payment having been on August 8. The aggregate since the commencement of dividends is thus 19c per share. The initial disbursement was 3c on February 20, 1934, and succeeding payments have been: 3c, July 2, 1934; 4c, December, 1934; 3c, May 1, 1935; 2c, December 14, 1935; 2c, August

8, 1936; 2c February 1, 1937. Highly efficient methods mark the operation of the Howey Gold Mines, the company making profits of a very low grade of ore. For the nine months ended September 30, the total recovery was \$958,831 from 394,055 tons of ore, or an average grade per ton of \$2.44. The aggregate recovery for 1935 was \$1,332,950, and the average grade \$2.75 per ton.

Interesting Results in Work in Hoyle District

(From Northern Miner)

Working in Hoyle, in the eastern part of Porcupine area and beyond Pamour, Ventures Limited is getting good results which, while interesting and encouraging, are not yet quite conclusive. Two diamond drills are at work and the present plan is to continue exploration for two or three months more, then decide whether underground work at that time is justified. There might be a tonnage of \$7 ore, if the good results in the good holes could be correlated. Ventures owns the ground outright and therefore is not under any option-term necessity of proceeding with shaft sinking.

The company is carrying on quite a bit of exploration work across the north country, including the exploring of a couple of prospects between the Cadillac and Rouyn districts.







