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Les West

GEOLOGIC REPORT

Polly Anna Claim Group, consisting of Broken Dome, Hard Rock, and Shirt Tail and other claims. A total of 80 claims.

These claims are located at the mouth of Blue Notch and Red Canyon, San Juan County, Utah, in the White Canyon Mining District 3 NW Quadrangle.

The property is accessible from Blanding, Utah, 3 miles south on Utah State Highway # 47; thence 75 miles over Utah State Highway # 95, west to 1 mile west of Happy Jack Mine thence 13 miles south and west by way of Blue Notch Canyon road to claim Camp site and partially developed Leach Mill site. The state roads are pavement and gravel and are reasonably well maintained. The 13 miles of Blue Notch Canyon road is in fair condition, but narrow and winding with occasional steep grades.

These claims lie on the edge of Lake Powell, which could be used as a means of transportation for supplies and haulage of concentrates from the mill site to Hite, Utah, approximately 7 to 10 miles north on the river shore from which state highway # 95 is paved to Green River, Utah.

Water is available for domestic and milling purposes, with spring water and the filing on the water in the lake itself.

The Climatic conditions are ideal for a mine and milling operation as in the past 15 years, I haven't witnessed a snowfall which didn't melt away the first day after a storm. The temperature seldom drops below 15 deg. in the extreme winter months. Little rain fall is encountered, possible thunder showers in early spring and late summer months. High temperature in the summer months, reaches 105 deg.

This area has been a very productive area in the way of production of Uranium and Copper. The famed Happy Jack Mine lies 3½ miles east of this claim group with the Blue Lizard, Markey, Radium King, Bulls Eye, Spook, and maybe mines on further east from 5 to 10 miles in the above order; possibly the same channel links them all.

This property is located on the western flank of the Monument Upways and is approximately 1 mile southeast to east from the flank of the Tertiary, intrusive Henry Mountains.

The bedding in the immediate area is relatively flat with a dip to the west of 1½ degrees. No major faulting is indicated nor known in the immediate area.

The topographic features in the area are the usual deep canyon, and mesa features typically found along the Colorado River. The high mesa tops are capped by Jurassic Wingate Sandstone, average elevetion of 5200 feet, to the Canyon floor of 3600 feet elevation base of which is on and in the Moeukope formation. Secondary mesa of Chinle "D" sandstone and Shinarump Conglomerate stair step, to base of Wingate formation. Drilling on these secondary mesa range from 40 feet to 185 feet to the Moenkopi Contact. Most of the claims lie on these secondary mesas.

There has been around 15,000 feet of plug drilling completed on these claims. Many of the 104 holes drilled on this property were highly mineralized with copper pyrites, carbon and a low grade Uranium ore. When these exploratory holes were drilled the owners were testing for Uranium only; but had several samples cuts assayed for copper; which ran from 1% copper to 11% copper. Mineralized zones from 2 feet

to a high of 14 feet in thickness.

Drill holes on claims BD 3 showed a definite scouring or cutting in the Moenkopi formation which dropped 42 feet between holes, in bottom hole elevation or contact or zone. This channeling or possible lode bed extends southward at a slight rise in the bottom hole elevation; indicating a wide channel possibly 4500 feet in width. High mineralization was encountered in all holes on the H.R. and P-H claims as the above mentioned assays indicate.

Uranium assays on the drill holes range from .02% to .17% a few hand picked samples have run to .26%. Average assay for mineralized zone will hold close to .10% Uranium.

Sedimentation was from an easterly direction and most of the exposed scours follow a relatively straight course. The Shinarump in this area displays many fluvial features. Crossbeds and jestoons are commonly observed on the exposed outcrops. They range from flood plain or marsh type lithology to channel type lithology. Numerous scours are visible on the outcrops ranging from 5 feet to 15 feet depth and 150 feet in width. Mineralization has a strong affinity for channel lows and the large amounts of Carbonacious material which is especially abundent in the area.

Thickness of Shinarump formation ranges from 5 feet to 25 feet average ore bedding throughout the claims will average 2 feet average chemical assays for this 2 feet of ore will run close to 2% Copper and .10% Uranium.

The exposed ore zone is medium to coarse grained and contains abundant carbon, jarosite and oxides of Copper.

Further back away from these outcrops the ore is primarily in a sulfide state.

This property can be worked on a strip mining operation for several years before going into underground mining operation.

Recommendations for the mining of this property would be a Portable mill set up to extract the Copper thru electrolosis and the Uranium thru the ionization process now being used in Wyoming on similar properties.

Figuring an average of 2 feet of 2% Copper ore and .10% Uranium, there is an estimated tonnage of 8,533,320 tons gross worth of $183,466,280.00. Figuring copper @ .50 per pound and Uranium @ $7.50 per pound.

I would utilize the Colorado River or Lake Powell, in hauling the concentrate out and supplies in. By using a surplus Navy landing craft which will haul a 30 ton load with ease. Build a ramp at Hite, Utah, and one on the site which can be used at all times. Even with the constant rise and fall of the lake itself.

Use surplus landing net on gradual ground slope up to a 15% grade, drop your bow doors and drive in or out of landing craft.

Build portable mill on skids for easy moving which can handle 500 to a 1000 ton a day.

Work claims as they come from west to east use canyons and benches behind you for waste material or over burden which will run from nothing to fifty feet in thickness for approximately 4000 feet in distance.

Following are assays taken from ore piles, face samples, shale samples above ore zone.

Samples from 140 tons of ore:

1. 2.9% Cu
2. 5.6 Cu
3. 12.7 Cu
4. 23.6 Cu
5. 8.7 Cu

53.5----10.7% average

Assays taken by Don Hargrove, January 1968:

#43	60" vertical cut in Shale	1.86%	Cu
#44	60" vertical cut in Shinarump	.40	
#45	40 ton stripped ore	3.30	
#46	5 ton stripped ore	1.76	

These samples were taken by Mr. Don Hargrove and showed approximately a 14' ore zone, of better than 2% Cu.

Assay on 46 ton at mill in Arizona averaged 1.87% Cu identical ore the trip before averaged 9.6% Cu.

Face sample August 2, 1969, (2' cut) silver 1.86 oz. Cu. 28.16% Uranium .08%.

Sample cuts from open stripping operations April 7, 1969.

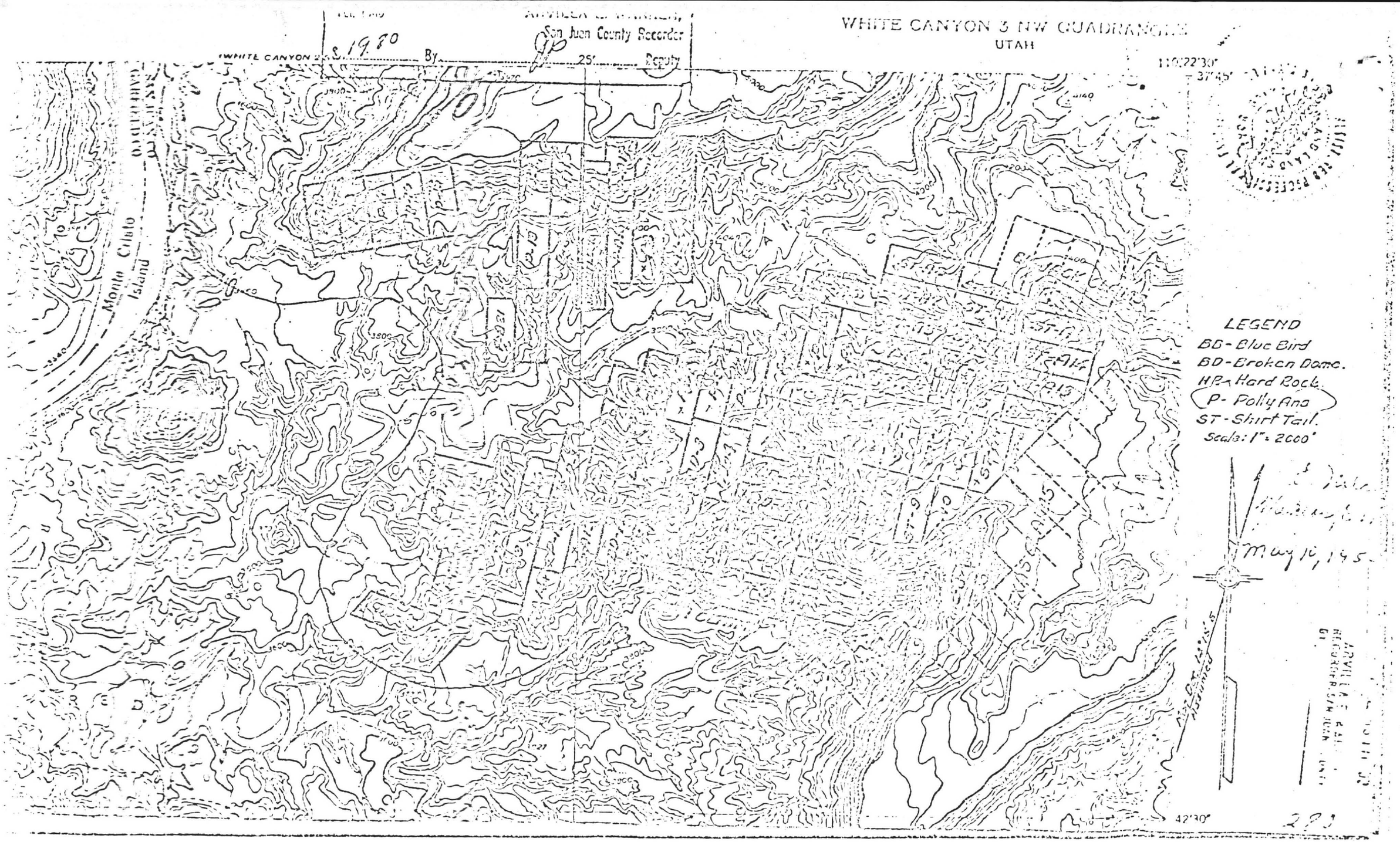
Strip 1 5.84% Cu
Strip 2 9.27% Cu

Douglas E. Noland

December 1st, 1969

ss/ Douglas E. Noland.

Duane Pheps
Phnx
266-7273


WHITE CANYON 3 NW QUADRANGLE
UTAH
San Juan County Recorder
WHITE CANYON
By
Deputy
Monte Cristo Island
LEGEND
BB - Blue Bird
BD - Broken Dome.
HR - Hard Rock
P - Polly Ann
ST - Shirt Tail.
Scale: 1" = 2000'
May 10, 195
42'30"