

130291

AFFIDAVIT OF ANNUAL ASSESSMENT WORK  
EUREKA COUNTY, NEVADA

The undersigned Donald G. Strachan certifies that at least ONE HUNDRED DOLLARS per claim was expended for development, labor and improvements, or equivalent value added, as the annual assessment work for the assessment year ending September 1, 1989 for the unpatented mining claims below, generally located in Sec. 5-8, 18, & 19, T.23N., R.52E., and Sec. 30, T.24N., R.52E., MDB&M, Eureka County, Nevada.

BIGWUN #586-596	NMC #491335-491340	(6)
BIGWUN #618-623	NMC #491341-491346	(6)
BIGWUN #785-818	NMC #491347-491380	(34)
BIGWUN #834-850	NMC #491381-491397	(17)
BIGWUN #960-969	NMC #491398-491407	(10)

Work described above was performed at the following location(s): Sections 29-31, T.24E., R.52E., and Sections 5-8, 18, & 19, T.23N., R.52E. Said work was performed between September, 1988 and May, 1989 and consisted of geologic mapping and geochemical sampling. A total of more than \$7,300 was expended in performing the work, or equivalent value added. Said work was performed to develop mineral potential of the claim(s) and to maintain and hold such claims. Said work was performed by Donald G. Strachan, consulting economic geologist, with 15 years experience (see attached qualifications).

Findings of the above work (see accompanying map and field descriptions): Stratigraphy - Quaternary alluvium, Permian conglomerates and basal limestone, and Ordovician Vinini shale and limestone in outcrop. Tertiary volcanics(?), Ordovician, Devonian and Silurian sediments in subsurface. Structure - Projected intersections of NW & NS regional vertical fractures. "Roberts Mtn" thrust in subsurface. Alteration - silicification (subcrop) in area of intersections and limestone recrystallization. Geochemistry - sagebrush gold and arsenic anomalies in alluvium above projected structural intersections.

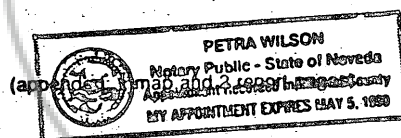
Owner: Sovereign Explorations, Inc., Suite 162 - 1755 East Plumb Lane, Reno, Nevada 89502.  
Telephone: 702-786-9919

DATED this 10 day of October, 1989.

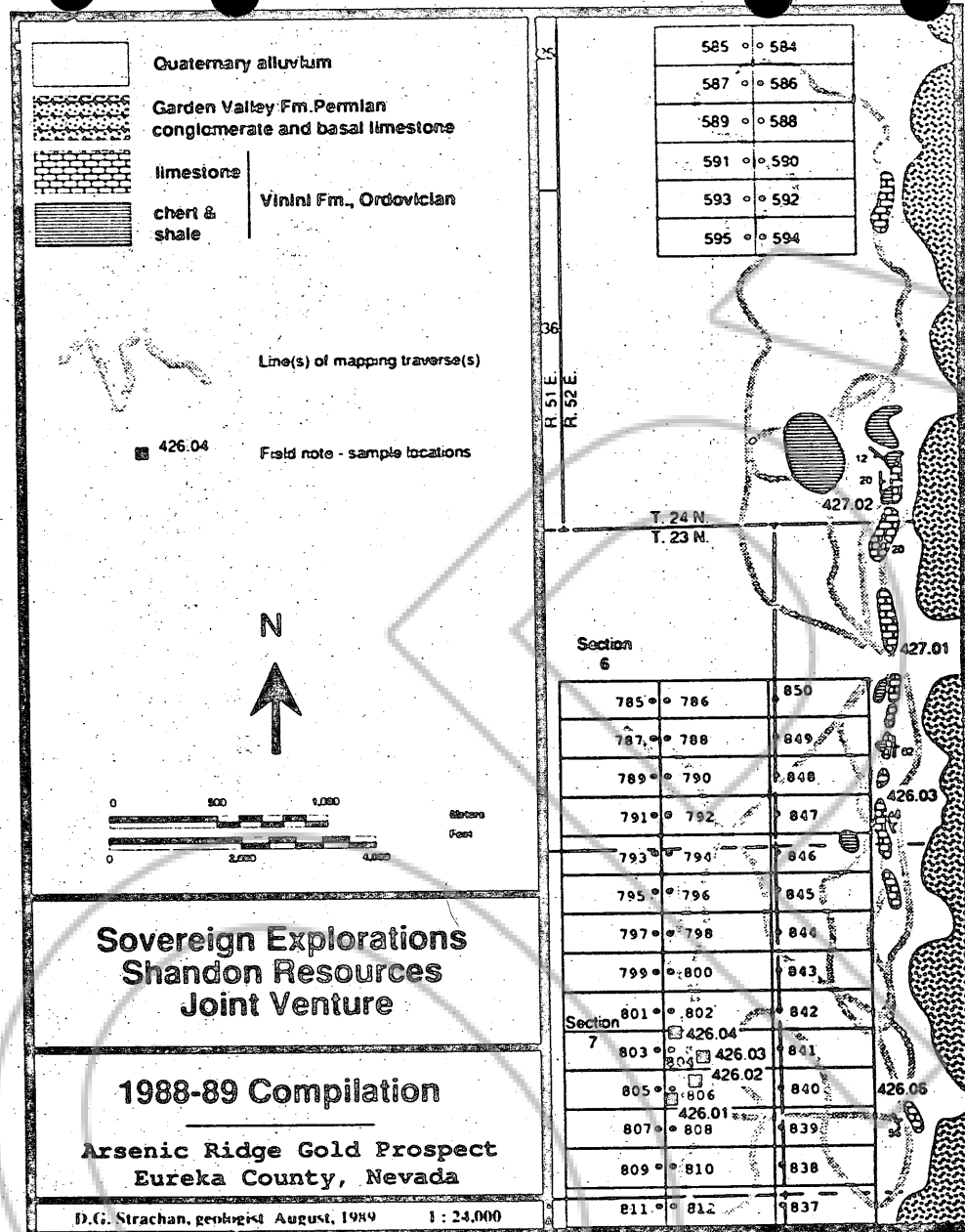
by Donald G. Strachan  
Donald G. Strachan, agent

Subscribed and sworn to before me  
this 10<sup>th</sup> day of Oct, 1989.

Petra Wilson  
Notary Public



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042689.01

Note. UTM Grid: 4415 33N / 572.38E Elevation: 6480'  
Location: South end of Arsenic Ridge. At location monuments of Bigwun #806 and #805, both of which are standing. 1,500' N. / 1,670' W of SE Corner Section 7, T.23 N., R.52E.  
Stratigraphy: Alluvium, with clasts of silicified (diagenetic?) Garden Valley Formation and fresh limestone.  
Structure: None.  
Alteration: None.  
Mineralization: None.  
Comments: This hill, at least on its west side, does not appear to be a drill target on the surface, but the sagebrush gold and arsenic float chip samples tell a different story.

042689.02

Assay. UTM Grid: 4415.45N / 572.51E Elevation: 6,455'  
Location: 2,050' N / 1,200' W. of SE Corner Section 7, T.23 N., R.52E. Surface boulder naturally broken into five large pieces over a 6' diameter area. Previously sampled.  
Stratigraphy: Subcrop? Alluvium?  
Structure: Unknown.  
Alteration: Silicified. Hydrothermally brecciated. Light grey to light brownish grey cut by breccia veinlets. Angular to subrounded broken fragments in grey to dark grey matrix.  
Mineralization: Weathered surface of breccia is pink to red from hematite weathering out of fine sulfides in grey matrix.  
Comments: a hydrothermal quartz-sulfide breccia boulder, hopefully from somewhere close at hand.

042689.03

Assay. UTM Grid: 4415.66N / 572.50E Elevation: 6,465'  
Location: Hillside. 1,750' north, 1,285' west of southeast corner Section 7, T.23 N., R.52E.  
Stratigraphy: Alluvium? Garden Valley subcrop?  
Structure: unknown  
Alteration: Silicified. Classic quartz-sulfide breccia appearance with dark grey matrix and light grey brown angular clasts.  
Mineralization: Perhaps grey is fine sulfides.  
Comments: Undoubtedly of alluvial origin. Could be sourced anywhere upslope for a mile.

042689.04

Assay. UTM Grid: 4415.82N / 572.37E Elevation: 6,425'  
Location: 2,540' north, 1,520' west of southeast corner Section 7, T.23 N., R.52E.  
Stratigraphy: Alluvial cobble. Crest of Arsenic Ridge has abundant limestone and rare silicic clasts. Lower slopes have abundant silicic clasts and rare limestone clasts.  
Structure: Unknown.  
Alteration: Silicic. Classic hydrothermal breccia. Dark grey, very fine sulfide matrix and light brownish grey angular fragments. Some clasts, which may have been sulfides or limestones, are weathered, leaving cavities.  
Mineralization: Dark grey sulfides in matrix. Abundant dark brown and dark yellow brown Emonites on weathered surfaces.  
Comments: This cobble appears to be from a "horizon" beneath the lower slopes of Arsenic Ridge. The larger sized fraction of this horizon is dominated by silica debris, hopefully locally derived and of epithermal origin.

## 042689.05

Note. UTM Grid: 4415.51N / 573.16E Elevation: 6,650'

Location: Outcrop. Low, rounded, at break in slope. 1,050' south, 650' east of southeast corner Section 7, T.23 N., R.52E.

Stratigraphy: Conglomerate, Garden Valley Formation. Light pinkish, brownish grey, and light grey chert cobbles to granules are set in a light grey to bleached microcrystalline quartz matrix of probable diagenetic origin. Everything downslope on the surface for over a mile is alluvium.

Structure: Unknown.

Alteration: Diagenetic silica matrix.

Mineralization: None.

Comments: This outcrop shows Garden Valley Formation exists west to the pediment edge in this area.

## 042689.06

Note. UTM Grid: 4415.21N / 573.61E Elevation: 6,580'

Location: Outcrop. Large, linear to north-northwest, low, rounded. 1,220' north, 1,900' east of southeast corner Section 7, T.23 N., R.52E.

Stratigraphy: Limestone, clastic, with quartz sand and granule angular clasts of Ordovician Vinini chert. Medium to thick bedded. Some laminar bedding.

Structure: Bedding strikes N.19°W. at 56° east.

Alteration: None.

Mineralization: None.

Comments: This unit is thought to be the primary host for disseminated gold at Arsenic Ridge. Steep dip to east implies uplift to west, in area of Arsenic Ridge.

## 042789.01

Note. UTM Grid: Elevation: 6,455'

Location: Outcrop, low, grey, extensive north-south, beginning at BGW #4; 1,619' north / 1,840' east of northeast corner Section 6, T. 23 N., R. 52 E.

Stratigraphy: Limestone, grey, coarse, thick bedded. Most likely Devonian Nevada Formation.

Structure: Bedding near horizontal?

Alteration: Fresh.

Mineralization: None.

Comments: Rare black chert nodules.

## 042789.02

Note. UTM Grid: Elevation: 6,510'

Location: North end of wide linear area of low grey outcrops. Brown outcrops occasionally to west. Outcrop is 800' north, 1,860' east of northeast corner Section 6, T23N, R52E.

Stratigraphy: Limestone, grey, thick bedded, capping unknown thickness and extent of black, thin to medium bedded chert (poorly outcropping) of the Vinini Formation.

Structure: Bedding dips 20° to ESE.

Alteration: None.

Mineralization: None.

Comments: Unsure as to age of limestone. Presence of chert below suggests Devonian Nevada or Permian Garden Valley limestones, but cannot rule out even Ordovician limestones in the Vinini section. This limestone does not have the obvious coarse calcarenitic texture of the Permian to the southeast of Arsenic Ridge. One hundred feet farther on, attitude of underlying chert beds change to 12° north 35° east, and chert beds ride to outcrop boldly, reflecting a fold or some fault drag. This may be an important structure for a North Sage exploration target, must map these foothills at 24K or better.

Conclusion of day: Other than limestone, the only lithology found in the North Sage foothills is Vinini chert. Unlike the Arsenic Ridge area, North Sage has no subcropping siliceous debris below recent gravels. A walk through the pediment did not reveal any ridges of dissected older pediment gravels, and thus no slopes exposing siliceous debris (if present) in the North Sage area.

Donald G. Strachan, geologist

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Garden Valley Joint Venture

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**QUALIFICATIONS TO PERFORM ASSESSMENT WORK**  
(Updated Summer 1989)

1986-1989: Consulting Economic Geologist. (Great Basin, western United States)

1984-1986: Economic Geologist, Nevada. Employed by St. Joe Minerals, Tucson, Arizona. Regional exploration and evaluation of disseminated and vein gold-silver occurrences, deposits, and districts in Paleozoic sediments, Tertiary volcanics, and Tertiary hot springs.

1976-1983: Economic Geologist, Western United States. Employed by Houston Oil and Minerals (subsequently Tenneco, subsequently Echo Bay Mines), Denver, Colorado. Precious metals, uranium, base metals in Tertiary, Mesozoic, Paleozoic, and Precambrian environments. Conducted final exploration of Borealis Pliocene hot spring gold deposit. Discovered and drilled five (subsequently mined) gold deposits in same district.

Summer 1975: Economic Geologist, New Mexico. Employed by Duval Inc., Tucson, Arizona. Base metals in Precambrian massive sulfide and Mesozoic skarns.

Summer 1974: Economic Geologist, New Mexico. Employed by Bear Creek Mining, Tucson, Arizona. Base metals in Mesozoic porphyry and skarn environments.

**PUBLICATIONS:**

- 1985 - Geologic Discussion of the Borealis Gold Deposit: in USGS Bulletin 1646, p. 89-94.
- 1982 - Geology of the Borealis Gold Deposit (abst.): SEG New Orleans, Louisiana.
- 1981 - Geochemical Prospecting for Borealis-type Gold Deposits (abst.): GSA Cordilleran Section Meeting, Hermosillo, Sonora, Mexico.

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RECORDED AT THE REQUEST OF  
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Donald Strachan  
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OFFICIAL RECORDS  
CLERK COUNTY, NEVADA  
FILE NO. 75  
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