(119) Item 7

Reno, Nevada - July 15, 1968

Mr. P. A. Meyer - Salt Lake City, Utah

Re: Gull Prospect, Eureka County, Nevada

Attached hereto is a report prepared by Mr. J. V. Tingley which covers our recent exploration effort at the Gull Prospect, Eureka County, Nevada.

A preponderance of geologic data collected during this project indicates that no further work is warranted on the properties and that the mining claim group be returned to Mr. Lyle Campbell. Annual assessment work for the current year has been completed and filed and Mr. Campbell has been so notified.

I concur with Mr. Tingley's view regarding the results and disposition of the Gull Properties.

R. J. Anctil

R. J. Anctil

RJA:cm
Attachment

CC: C. E. Melbye
File - Gull

FINAL REPORT

GULL PROSPECT
MOUNT HOPE MINING DISTRICT
Eureka County, Nevada

by

J. V. Tingley

Distribution:
Los Angeles - 2
Salt Lake City - 2
Reno - 3

Reno, Nevada

July 8, 1968

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FINAL REPORT
GULL PROSPECT
MOUNT HOPE MINING DISTRICT
EUREKA COUNTY, NEVADA

SUMMARY

The Gull Prospect, Mount Hope Mining District, Eureka County, Nevada was submitted to Union Pacific in October of 1967. Lyle F. Campbell, owner of the 17-claim Gull group, presented the prospect as a potential Carlin-type gold deposit.

Examination of the ground proved the existence of a strong gold geochemical anomaly in carbonate rocks of the Devonian Nevada formation. These rocks outcrop north of a large Tertiary rhyolite intrusive, forming an island surrounded by cherts and shales of the Ordovician Vinini formation. Structurally, the area was interpreted to be a window in the Roberts Mountain thrust sheet, exposing a central core of dolomite separated from the surrounding shale by a flat-dipping thrust fault.

The gold values were thought to be the expression of a possible disseminated gold occurrence somewhere below in the carbonate section.

The property was optioned and drilling commenced in February of 1968.

Drilling results showed that the original premise of a window in the Roberts Mountain thrust sheet was false. The mineralized dolomite was merely a thin block resting on an unknown thickness of unmineralized Vinini formation.

The dolomite was placed in this position either by overturning of the thrust block from the west or perhaps by thrusting or gravity sliding from the east.

It then became apparent that any possible gold ore body would lie far below, beneath an unknown thickness of unmineralized "upper-plate" rock and out of reach of mining.

Work was stopped on the property and it was recommended that Union Pacific not extend our option beyond the June 30, 1968 termination date.

CONCLUSIONS AND RECOMMENDATIONS

Drilling and sampling carried out on the Gull property has led to the following conclusions:

1) The Gull Window is not a true window in the Roberts Mountain thrust sheet, but is a

thin sliver of carbonate rock perched upon an unknown thickness of western facies rock.

2) Gold mineralization is confined to quartz-carbonate veins in the dolomite, and does not extend down into the underlying shales.

3) A disseminated gold ore body does not exist beneath the mineralized outcrops on the Gull claims, at least within the 600-foot depth tested by drilling.

4) Any possible ore body would be beneath an unknown thickness of Vinini shale. This would be well below 600 feet, and beyond the reach of economic recovery.

Considering these conclusions, no further work on the Gull property is warranted by Union Pacific. Our option period ends June 30, 1968, and should not be extended.

INTRODUCTION

Early in October, 1967, Mr. Lyle F. Campbell presented this property in the Roberts Mountain thrust belt to Union Pacific for appraisal. A gold geochemical anomaly had been discovered in Devonian carbonate rocks in an area northwest of Mount Hope in central Eureka County, Nevada.

Examination of the ground by Union Pacific verified Campbell's findings; a gold anomaly did exist in fractured, veined carbonate rocks. From exposures on the property, the geology seemed to be as Ralph Roberts described in his 1964 U.S.G.S. open file report - a window of eastern facies carbonate rocks skirted by overriding western facies siliceous rocks.

An exploration target immediately presented itself. The geochemical anomaly could be the expression of a disseminated gold deposit hidden either under the thrust sheet to the northwest or directly beneath the anomaly in favorable carbonate rocks.

The recommendation was made to option the property and a lease agreement was signed January 1, 1968.

Exploration work on the ground began in mid-January and was completed by the end of March, 1968.

LOCATION

The Gull Prospect is located in the Mount Hope Mining District about 25 miles northwest of Eureka, Nevada.

The original 17 claims of the Gull group are in the southeast corner of Section 34 and the southwest corner of Section 35, T. 23 N., R. 51 E., M.D. B.L. and M. A good graded road connects the property with State Route 20 which lies about four miles to the east.

The central portion of the area, underlain by carbonate rocks, supports a small stand of Pinon Pine.

The surrounding area of quartzite, chert, and shale is sparsely covered by sage, rabbit brush, and scrub Juniper.

Elevations on the property range from 6,800 feet to 7,800 feet. The maximum relief is attained in the central Gull claim area where the steeply-dipping carbonate rocks form rugged cliffs, contrasting with the rolling topography developed on the adjacent shales and cherts.

OWNERSHIP

The Gull property, consisting of the Gull and Sea claim groups are held by right of mining location by

Lyle F. Campbell, Box 7377, Reno, Nevada.

Fourteen of the seventeen original Gull claims were staked by Lyle Campbell on the eleventh and twelfth of May, 1967. The three remaining claims, Gull 61, 63, and 65, were located on June 12, 1967. These claims were all properly monumented, validated, and recorded by August 4, 1967.

In December of 1967, Union Pacific staked an additional 76 claims (Sea 1-76), surrounding Campbell's original claims on all sides. Since an agreement had not yet been signed on the property, these claims were staked in Campbell's name.

GENERAL GEOLOGY

Four major rock units crop out on the claims. These are Ordovician Vinini shale, quartzite, and chert; Devonian Nevada dolomite; Devonian Devil's Gate limestone; and a Tertiary rhyolite intrusive.

The Vinini formation is one of the siliceous western facies rocks thrust into this area along the Roberts Mountain thrust plane. The two Devonian units are "native" to the area, commonly forming the footwall of the thrust fault. The rhyolite intrusive cuts all older rock types.

The Nevada dolomite crops out in the central portion of the Gull claims forming an irregular spherical outline slightly elongate to the northwest. To the west, southwest, and southeast, Vinini shales are in thrust contact with the central dolomite mass. Intrusive rhyolite cuts the dolomite on the northeast. A small patch of rhyolite along the south edge of the property may indicate that a sill-like body of rhyolite underlies the dolomite along the thrust plane.

DESCRIPTION OF THE ROCKS

In this area, the Vinini formation is composed of thin-bedded blue, blue-green, and black shales, grey and tan fine-grained quartzite, and green and black chert. These rocks weather to varying shades of white, tan and brown. The rocks are highly contorted and broken with variable dips and strikes. At their contact with the Nevada dolomite on the west side of the property, the shales appear to dip to the east, under the dolomite.

The Nevada dolomite cropping out on the property has been brecciated and recemented with silica. This silica, forming as white chalcedonic quartz and red

jasper, occurs as a webbing throughout the rock. Weathering causes these webs to stand out as a silica lacework on the rock surface. Bedding is indistinct in this rock, making the determination of dip and strike difficult.

The Devil's Gate formation, a flaggy, blue-black limestone can be seen in depositional contact with the underlying Nevada formation in one outcrop in the southern claim area. The Devil's Gate is sparsely veined with white calcite, but is otherwise unaltered.

The rhyolite intrusive is a coarse textured rock with subhedral, clear quartz eyes set in a fine-grained matrix. The rock is light tan to orange red on its weathered surface. The coloration is no doubt caused by a contained pyrite altering to limonite and hematite during the weathering process.

REGIONAL STRUCTURE

The major structural feature in this area, as in most of north-central Nevada, is the Roberts Mountain thrust. Siliceous rocks, originally deposited far to the west, have been moved eastward along an irregular fault surface overriding locally deposited carbonate rocks.

In the Mount Hope area, the secondary structural element is a prominent northwest-trending arch or zone of weakness which extends from near Eureka to Battle Mountain. Intrusive activity and related mineralization coincides with this structure throughout its length.

Locally, a rhyolite intrusive forming Mt. Hope and the smaller rhyolite masses to the northwest on the Gull property probably have a common source and are intruded along the northwest structural belt.

LOCAL STRUCTURE

The outcrop pattern on the Gull claims is that of a typical window in the Roberts Mountain thrust sheet - mineralized lower plate limestones exposed by virtue of erosion of the overriding siliceous rocks on a structural high. However, trenching and drilling of this property proved that this was not the true condition.

Carbonate rocks form the upper plate of the thrust on the Gull property, and overlie shales of the Vinini formation.

This situation, the reverse of the expected, was brought about either by local overturning of the thrust sheet, or by thrusting or gravity sliding from the east as a result of the intrusion of the Mount Hope rhyolite plug.

Somewhere at depth, the thrust fault should exist in its normal position with carbonate rocks beneath it, but the depth to this feature is unknown.

Two major fault systems were mapped on the Gull property. A northwest trending fault zone can be traced in the carbonate rocks from the area of an old shaft on Gull #65 northwest to the central part of Gull #4. Massive quartz-carbonate vein material occurs irregularly along this fault zone.

A more recent northeast fault zone passes along the western edge of the dolomite hill. This cuts the northwest fault zone, and in some areas forms the contact between the Vinini shale and Nevada dolomite. This fault zone is traceable in the rhyolite intrusive as well as the older shales and dolomite.

ALTERATION AND MINERALIZATION

The rocks exposed on the property are not intensely altered. Dolomite in the central claim area has been brecciated and recemented by silica. During this process, the rock itself was moderately silicified.

The intrusion of the rhyolite plugs resulted in formation of irregular patches of massive jasper in the intruded dolomite. The largest jasper mass occurs on the northwestern tip of the exposed dolomite. It forms the back of a northwest trending ridge, is 50 to 100 feet wide, and can be traced for about 500 feet along the ridge.

Wherever exposed, the thrust fault zone shows evidence of alteration. Crushed rock along the fault is kaolinized and stained dull brick red and yellow from limonite and hematite.

Quartz-calcite veining occurs in brecciated dolomite in two parts of the property. Both are probably related to a common northwest structural control. The veins range in size from thin coatings of calcedonic silica on breccia fragments to veins from 6 inches to 50 feet

in width. The largest veins are composed of grey-white crystalline calcite having vugs coated with tiny, clear quartz crystals.

Stibnite crystals occur in small radiating groups in one 2-3 foot wide vein in the center of Gull #4.

With the exception of narrow hematite-coated fault zones within them, the Ordovician siliceous rocks are not altered or mineralized. These rocks show considerable brown and yellow coloration but this is thought to be due to weathering of syngenetic pyrite within the beds.

EXPLORATION WORK

Exploration work on the Gull prospect was designed to test for the presence of a disseminated gold deposit at depth beneath brecciated, veined, and mineralized carbonate rock which forms the "Gull Window".

Five rotary drill sites were chosen to accomplish this purpose.

Four of these holes plus one offset hole were drilled to shallow depths. Technical difficulties caused the rotary program to be abandoned at this point. A diamond drill was then brought in and one rotary hole, G-3, was deepened to 600 feet.

Hole G-3 is located in the northwest corner of Gull #5, well within the dolomite outcrop and along the strike of the mineralized quartz-carbonate vein system.

In addition to drilling, geochemical sampling and geologic mapping was done on the property. Most of the geochemical samples were taken in jasper and quartz-carbonate vein material in the central dolomite outcrop. One line of sampling was done in the Vinini outcrop area to the northwest of the Gull claims.

Geologic mapping consisted of making a few changes and additions to the map supplied by Lyle Campbell.

RESULTS OF INVESTIGATIONS

Geochemical sampling showed that anomalous gold values occur only in the quartz-carbonate vein system near the south-center of Gull #4. Samples ranging from $4 to $18 per ton in gold were obtained from this outcrop. Values are confined to the vein itself, and were taken over 2'-4' widths.

The rotary drilling gave the first indication that the supposed Gull Window was not a true window, but was

underlain by Vinini shales and chert. Drill holes G-1 and G-1A, collared in shale a few feet from outcropping dolomite, remained in shale to depths of 60' and 160' respectively. Hole G-4, collared in dolomite near the supposed thrust contact, passed into Vinini shale at 50 feet.

Hole G-3, rotary drilled to 65 feet and deepened to 600 feet by a diamond drill, confirmed the unfortunate conclusion. It entered Vinini shales and chert at 155 feet and remained in that formation to its total depth of 600 feet.

With the exception of anomalous arsenic values near the dolomite-shale contact in hole G-3, all the drill holes were barren of mineralization.

Rhyolite was cut by hole G-3 at 125' to 135', possibly indicating a sill-like mass underlies the Gull property, connecting the plug to the north with the smaller rhyolite masses south of the claims.

Veining and mineralization in the dolomite could well be the expression of a disseminated gold ore body. Since the dolomite mass has been moved into its present

position by faulting, possibly post-mineral, the location of such an ore body could be any unknown distance and direction from the Gull area.

J. V. Tingley

J. V. Tingley

JVT:cm
7/8/68

SAMPLE DATA SHEET

Collector E. Marky Area Drill Hole # 2 Map Gull Claims Date 9/68

Sample No.	TYPE	Location	Sample Enviroment	Sample Description	Geological notes & remarks	Analytical Au Results (ppm)	As
2701	R	0'-5'	Drill Hole	Drill Cuttings	Maroon-red shale & chert,	.03	100
2702		5-10			clay, - crushed fault zone	.02	
2703		10-15			material	<.02	
2704		15-20				.02	
2705		20-25			Grey-black shale with	.03	
2706		25-30			reddish clay, orange-yellow	.05	
2707		30-35			limonite on shale fragments.	<.02	
2708		35-40				.02	
2709		40-45				.02	
2710		45-50				.03	
2711		50-55				.04	
2712		55-60				.05	120

SAMPLE DATA SHEET

Collector E. Marley Area Drill Hole 1-A Map Gull Claims Date 2/4/68

Sample No.	Type	Location	Sample Enviroment	Sample Description	Geological notes & remarks	Analytical As Results (ppm)	As
2926	R	0'-5'	Drill Hole	Drill Cuttings		.03	80
2927		5-10				.03	
2928		10-15				.04	
2929		15-20				.03	
2930		20-25				.03	
2931		25-30				.03	
2932		30-35				.04	
2933		35-40				.03	
2934		40-45				.03	
2935		45-50				.03	
2936		50-55				.03	
2937		55-60				.04	
2938		60-65				.04	
2939		65-70				.03	
2940		70-75				.03	
2941		75-80				.03	
2942		80-85				.03	
2943		85-90				.04	
2944		90-95				.04	100

SL-FORM 1

SAMPLE DATA SHEET

Collector E. Marley Area Drill Hole 1-A Map Gull Claims Date 9/24/68

Sample No.	Type	Location	Sample Enviroment	Sample Description	Geological notes & remarks	Analytical Au Results (ppm)	As
2945	R	95-100	Drill Hole	Drill Cuttings		.03	
2946		100-105				.02	
2947		105-110				.03	
2948		115-120				.02	
2949		120-125				.02	
2950		125-130				.02	
2951		130-135				.02	
2952		135-140				.03	
2953		140-145				.04	
2954		145-150				.03	
2955		150-155				.03	
2956		155-160				.03	80

SL-FORM 1

SAMPLE DATA SHEET

Collector E. Marley Area Drill Hole # 3 Map Gull Claims Date 3/8/68

Sample No.	TYPE	Location	Sample Enviroment	Sample Description	Geological notes & remarks	Analytical Au Results (ppm)	As
2911	R	0-5	Drill Hole	Drill Cuttings	Grey to white recrystallized limestone,	.04	120
2912		5-10			bleached to white toward bottom,	.04	
2913		10-15			minor Jasperoid	.03	
2914		15-20				.03	
2915		20-25				.04	
2916		25-30				.04	
2917		30-35				.06	
2918		35-40				.03	
2919		40-45				.03	
2920		45-50				.04	
2921		50-55				.03	
2922		55-60				.03	
2924		60-65			Buff limestone, flecks of cinnamon	.02	
					brown & red brown Jasperoid	.02	120

C FM 2

Property: Gull
Bearing: —
County: Eureka
Started: March 8, 1968

Location or Coord: NW 1/4, Gull #5
Inclination: [illegible]
State: Nevada
Completed:

Hole: Gull #3
Sheet: 1 Of: [illegible]
Altitude:
Logged by: JT

Footage	Core Rec.	Graphic Log (Scale) Alt.	Rock Struc	Min	Sample Number	Assays (ppm) Au			Remarks
65'									
68'-77'	54%		Dolomite / Breccia fd		2958	.02			Tan & reddish tan brecciated dolomite Soft calcite & gouge along fault zone at 68.5-71.5 feet
					2959	.02			
77'-91'	63%			Calcite	2960	.14			Some To 81.5', then crushed dolo. fragments in tan-brick red matrix, at 86', changes to dolomite breccia, fragments up to 1/4", cemented with rose-pink carbonate material
					2961	.04			89-91, massive grey dolomite
					2962	.02			
91'-114'	37%				2963	.02			Massive grey dolomite to 96', fault zone to 107', brecciated dolomite, minor calcite cement with jasperoid on fracture faces.
				Calcite	2964	.02			Last 12' contains small calcite veinlets
100'					2965	.02			
					2966	<.02			
114'-139'	34%				2967	.02			Massive grey dolomite, silicified black siliceous rock at 117, rock well brecciated & re-cemented with silica
					2968	.02			
			?			[illegible]			119'-130' - no core
			Argill. fd						2" of rhyolite core - cloudy white matrix w/ subhedral quartz eyes
			Breccia fd dolomite	Mn.	2969	.02			131'-137' Dolomite breccia, pink calcite cementing, some Mn
135'									

Hole # G-3
Sheet 1 of 8

C FM 2

Property: Gail
Bearing:
County:
Started:

Location or Coord:
Inclination: [redacted]
State:
Completed:

Hole:
Sheet 2 Of [redacted]
Altitude:
Logged by: JF

Footage	Core Rec.	Graphic Log (Scale) Alt.	Rock Struc	Min	Sample No.	Assays (ppm) Au	As	Sample Wt.	Remarks
135'									
114-139 (cont.)				calcite, Jasper, chalcedony	2970	.03			Minor Jasperoid 137-139, Dense tan-grey dolomite, fine pinkish calcite veining, chalcedony & Jasper
139-149	87%				2971	.02			Pinkish grey dolomite, brecciated to 140.5, massive to 148, veined
				silica veins	2972	.02			with fine pink & white calcite veinlets – "webbing" of fine silica veinlets
					2973	.02			148-149 Brecciation increases, cementing becomes brick red, silica webbing increases
149-158	95%		Fault zone		2974	.03 ~~.02~~	– ~~120~~		Brick red fault gouge, w/ dolomite fragments, grading to talcose gouge at 150, warm grey-green gouge to 154, changing to soft, shaley, green-black gouge
158-174	75%				2975	.04	120		
									158-167, Same, leases of black shale, limonite staining along fractures in shale, grades
175					2976				into greenish shale at 174
174-183	87%			Pyrite		.04	50		Greenish black shale & argillite, serpentinized along bedding shears
183-190	100%								Same, very soft
190-199	96%								Same to 197, grading into harder grey-green shale w/ vert. fractures, some red br-limonite along fractures, minor pyrite
			Shale						
200									
199-212	68%								Same

Hole # G-3
Sheet 2 of 4

LC FM 2

Property: Gull
Bearing:
County:
Started:
Location or Coord:
Inclination:
State:
Completed:
Hole:
Sheet: 3 Of:
Altitude:
Logged by: JT

Footage	Core Rec.	Graphic Log (Scale) Alt.	Rock Struc	Min	Sample No.	Assays (ppm) Au	As	Remarks
200								
199-212 (cont.)		Vimini Formation Shale, Argillite & Chert						201-211 Crushed black shale & fault gouge
								211-212 Dense, black chert
212-231	56%			Pyrite				Dense black chert & argillite, minor pyrite.
230								
231-263	19%			Pyrite				Dense black, possibly carbonaceous shale & argillite, minor thin white calcite veining, <1% pyrite along bedding planes.
						.02	20	
					#2977			
260								
263-275	66%			Calcite				Dense black argillite & shale, minor hairline veinlets of white calcite, thin coating of drusy silica on some fractures.

Hole # G-3
Sheet 3 of 4

FM 2

Property: Gull
Bear[illegible]
County
Started

Location or Coord
Inclination [illegible]
State
Completed

Hole
Sheet 4 Of 8
Altitude
Logged by JT.

Footage	Core Rec.	Graphic Log (Scale) Alt.	Rock Struc	Min	Assays (ppm) Au	As	Remarks
270							
275-284	89%	Viaini Formation Shale, Chert, Argillite			.05	20	Crushed, black, carbonaceous appearing shale beds, 1" thick, alternating with black argillite. Shale bedding (Shear?) horizontal
284-305	43%						Same, dense chert lense 301-305
300							
305-315	90%			Pyrite	.05	30	Same, blebs pyrite along bedding, grey-green shale 314-314.5, rock highly broken
315-332	47%						Same, soft black shale, highly sheared 330-335.
332-345	67%						Greenish-black argillite & shale to 338, soft carbonaceous shale to 345
					.02	30	

2978
2979
2990

Hole # G-3
Sheet 4 of 8

FM 2

Property: Gull
Bearing:
County:
Started:

Location or Coord:
Inclination:
State:
Completed:

Hole:
Sheet: 5 Of: 8
Altitude:
Logged by: JF

Footage	Core Rec.	Graphic Log (Scale) Alt.	Rock Struc	Min	Sample No.	Assays (ppm) Au	As		Remarks
340					2990				
345-355	95%			Pyrite	2981	.04	40		Broken, black carbonaceous shale, pyrite present along shear & bedding planes.
355-363	100%								Same to 356, changing to olive green shale, lense of black shale 361-363
363-372	100%								Black shale to 366, changing to olive green shale, highly sheared, minor fine grained pyrite along shear planes
372-381	100%								Contorted, sheared soft olive green shale, no pyrite
375									
381-389	100%								Same
389-398	100%								Grey-green shale, w/ serpentine like minerals along horizontal & vertical fractures, minor pyrite ~~along~~ in irregular patches, lenses of liner & sandy shale.
400									
398-407	100%								Same

Hole # G-3
Sheet 5 of 8

FM 2

Property: Gull
Bearing:
County:
Started:

Location or Coord:
Inclination:
State:
Completed:

Hole: G-3
Sheet: 6 Of: 8
Altitude:
Logged by: JF

Footage	Core Rec.	Graphic Log (Scale) Alt.	Rock Struc	Min	Sample No.	Assays (ppm) Au	As		Remarks
407-415	100%								Olive green argillite alternating with crushed soft olive green shale, bedding in argillite at 25% with core, some vertical fracturing with thin frost of white calcite on surfaces
415-426	86%								Same, limey lense, 415-417
426-435	100%								Olive green limestone & limey argillite interbedded with soft, olive green shale, shale highly crushed & contorted, bedding at 30% with core, beds 6" to 1' thick
435-444	100%								Same
444-454	100%								Same
					2982	.03	50		
454-469									Hard grey green, pale olive green, and dusky mottled green limey argillite to 462, then olive green shale
469-479	100%								Same

Hole # G-3
Sheet 6 of 8

FM 2

Property: Gull
Bear[redacted]
County:
Started:

Location or Coord:
Inclination: [redacted]
State:
Completed:

Hole: G-3
Sheet: 7 Of: 8[redacted]
Altitude:
Logged by: JT

Footage	Core Rec.	Graphic Log (Scale) Alt.	Rock Struc	Min	Sample No	Assays (ppm) Au	As	~~Sample No.~~	Remarks
479-486	100%								Same
486-494	100%								Pale olive green limey argillite laced with hairline veinlets of black, clear silica
494-502	100%								Same, bedding at 60% with core
502-511	100%								Same
511-520	100%								Same
520-528	100%								Same
528-537	100%								Same, minor white calcite patches in green shale
537-546	100%								Same
					2983	.04	60		

480
500
520
540
560

Hole # G-3
Sheet 7 of 8

FM 2

Property: Gull
Bearing:
County:
Started:

Location or Coord:
Inclination:
State:
Completed:

Hole: G-3
Sheet: 8 Of: 8
Altitude:
Logged by: JT

Footage	Core Rec.	Graphic Log (Scale) Alt.	Rock Struc	Min		Assays (ppm) Au	As		Remarks
550									
546-556	95%				← 2993	.04	60		Soft, crushed, olive green shale
556-567	100%								Same
567-576	100%								Same
570									
576-585	100%								Same
585-594	100%								Same
590									
594-600					← 2994	.04	40		Same, bottom of hole
600									

Hole # G-3
Sheet 8 of 8

SL-FORM 1

SAMPLE DATA SHEET

Collector J. Tingley Area Gull Hole #3- Map — Date 3/14/68

Sample No.	Type	Location	Sample Enviroment	Sample Description	Geological notes & remarks	Analytical Results (ppm) Au	Ag	As	Hg
2533	R	71.5'-72.0	Drill Hole	Drill Core	Random chips from red-brown limestone	.02	12.0	300	.08
2534	R	139'-149'	"	" "	" " , Jasperoid zone	.03	11.0	50	.05
2535	R	149-150'	"	" "		.04	12.0	200.	.08

SL-FORM 1

SAMPLE DATA SHEET

Collector E. Marley Area Drill Hole # 4 Map Gull Claims Date 3/8/68

Sample No.	Type	Location	Sample Enviroment	Sample Description	Geological notes & remarks	Analytical Au Results (ppm)	As
2894	R	0-5	Drill Hole	Drill Cuttings	Grey-white, silicified limestone	.02	80
2895		5-10				.03	
2896		10-15				.03	
2897		15-20				.03	
2898		20-25				.03	
2899		25-30				.02	
2900		30-35				.03	
2901		35-40				.03	
2902		40-45				.02	
2903		45-50				.02	
2904		50-55			Dark grey to black argillite	.03	
2905		55-60			with some fine graind	.03	
2906		60-65			carbonaceous shale	.03	
2907		65-70				.02	
2908		70-75				.03	
2909		75-80				.03	
2910		80-85				<.02	80

SL-FORM 1

SAMPLE DATA SHEET

Collector E. Marley Area Drill Hole #5 Map Gull Claims Date 3/5/68

Sample No.	Type	Location	Sample Enviroment	Sample Description	Geological notes & remarks	Analytical Au Results (ppm)	As
2878	R	0-5	Drill Hole	Drill Cuttings	Silicified limestone, grey to	.03	120
2879		5-10			buff, minor calcite veinlets	.03	
2880		10-15				.02	
2881		15-20				.02	
2882		20-25				.02	
2883		25-30				.02	
2884		30-35				.04	
2885		35-40				.03	
2886		40-45				.03	
2887		45-50				.03	
2888		50-55				.03	
2889		55-60				.03	
2890		60-65				.03	
2891		65-70				.02	
2892		70-75				.02	
2893		75-80			Water table intersected,	—	
					bleached, soft limestone with quartz	.02	100
					veining, possible contact with		
					underlying rhyolite (?)		

SL-FORM 1

SAMPLE DATA SHEET

Collector E. Marley Area Validation Hole V-1 Map Sea Claims Date 2/4/68

Sample No.	Type	Location	Sample Enviroment	Sample Description	Geological notes & remarks	Analytical Results (ppm) Au	As
2751	R	0'-5'	Drill Hole	Drill Cuttings	Grey to black shale & argillite	.04	50
2752		5'-10'			of Vinini Formation	.05	
2753		10'-15'				.03	
2754		15'-20'				.04	
2755		20'-25'				.02	
2756		25'-30'				.03	
2757		30'-35'			Water table intersected	.02	
2816		35-95				.03	

SL-FORM 1

SAMPLE DATA SHEET

Collector E. Marley Area Sea Validation Hole V-2 Map Sea Claims Date 2/26/68

Sample No.	Type	Location	Sample Enviroment	Sample Description	Geological notes & remarks	Analytical Results (ppm) Au	As
2758	R	0'-5'	Drill Hole	Drill Cuttings	Grey to black shale &	.03	50
2759		5-10			argillite of Vinini Formation	.03	
2760		10-15				.03	
2761		15-20				.03	
2762		20-25				.03	
2763		25-30				.03	
2764		30-35				.02	
2765		35-40				.03	
2766		40-45			Water table intersected	.02	
2767		45-50				.03	
2768		50-55				.03	
2769		55-60				.03	
2770		60-65				.03	
2771		65-70				.02	
2772		70-75				.03	
2773		75-80				.02	
2774		80-85				.02	
2775		85-90				.03	
2776		90-95				.02	
2777		95-100				.03	50

SL-FORM 1

SAMPLE DATA SHEET

Collector E. Marley Area Sea Validation Hole V-3 Map Sea Claims Date 2/29/68

Sample No.	Type	Location	Sample Enviroment	Sample Description	Geological notes & remarks	Analytical Results (Au) (ppm)	As
2858	R	0'-5'	Drill Hole	Drill Cuttings	Rhyolite intrusive, cream white	.04	50
2859		5-10			groundmass with 1/16"-1/8"	.03	
2860		10-15			clear subhedral quartz eyes,	.04	
2861		15-20			minor limonite staining	.04	
2862		20-25				.04	
2863		25-30				.03	
2864		30-35				.03	
2865		35-40				.04	
2866		40-45				.04	
2867		45-50				.04	
2868		50-55				.04	
2869		55-60				.03	
2870		60-65				.03	
2871		65-70				.02	
2872		70-75					
2873		75-80					
2874		80-85					
2875		85-90					
2876		90-95					
2877		95-100					100

SL-FORM 1

SAMPLE DATA SHEET

Collector E. Marley Area Sea Validation Hole V-4 Map Sea Claims Date 2/2?/68

Sample No.	TYPE	Location	Sample Enviroment	Sample Description	Geological notes & remarks	Analytical Results (Au) (ppm)	As
2798	R	0-5'	Drill Hole	Drill Cuttings	Grey to black shale &	.02	80
2799		5-10			argillite - Vinini Fm.	.03	
2800		10-15				.03	
2801		15-20				.03	
2802		20-25				.02	
2803		25-30				.02	
2804		30-35				.02	
2805		35-40				.03	
2806		40-45			Water table intersected	[redacted]	
2807		45-50				[redacted]	
2808		50-55					
2809		55-60					
2810		60-65					
2811		65-70					
2812		70-75					
2813		75-80					
2814		80-85					
2815		85-90					
2817		(90-95 missing) 95-100					

SL-FORM 1

SAMPLE DATA SHEET

Collector E. Marley Area Sea Validation Hole 0-5 Map Sea Claims Date 3/1/68

Sample No.	Type	Location	Sample Enviroment	Sample Description	Geological notes & remarks	Analytical (Au) Results (ppm)	As
2818	R	0'-5'	Drill Hole	Drill Cuttings	Grey-black shale, argillite -	.03	80
2819		5-10			Vinini Fm	.02	
2820		10-15				.02	
2821		15-20				.03	
2822		20-25				.03	
2823		25-30				.02	
2824		30-35				.02	
2825		35-40					
2826		40-45					
2827		45-50					
2828		50-55					
2829		55-60					
2830		60-65					
2831		65-70					
2832		70-75					
2833		75-80					
2834		80-85					
2835		85-90					
2836		90-95					
2837		95-100					

SL-FORM 1

SAMPLE DATA SHEET

Collector E. Marley Area Sea Validation Hole V-6 Map Sea Claims Date 3/2/68

Sample No.	TYPE	Location	Sample Enviroment	Sample Description	Geological notes & remarks	Analytical (Au) Results (ppm)	As
2838	R	0'-5'	Drill Hole	Drill Cuttings	Grey-black shale, bottom	.04	60
2839		5-10			40' very black shale	.03	
2840		10-15				.02	
2841		15-20				<.02	
2842		20-25				<.02	
2843		25-30				<.02	
2844		30-35				.02	
2845		35-40				.03	
2846		40-45				.02	
2847		45-50				.04	
2848		50-55				.02	
2849		55-60				.02	
2850		60-65				.04	
2851		65-70				.04	
2852		70-75				.02	
2853		75-80				.04	
2854		80-85				.04	
2855		85-90				.03	
2856		90-95				.04	
2857		95-100				.04	80

SL-FORM 1

SAMPLE DATA SHEET

Collector E. Marley Area Sea Validation Hole D-7 Map Sea Claims Date 2/6/68

Sample No.	Type	Location	Sample Enviroment	Sample Description	Geological notes & remarks	Analytical (Au) Results (ppm)	As
2778	R	0'-5'	Drill Hole	Drill Cuttings	Black shale & argillite,	.03	50
2779		5-10			Vinini Fm.	.03	
2780		10-15				.02	
2781		15-20				.04	
2782		20-25				.03	
2783		25-30				.02	
2784		30-35				.04	
2785		35-40				.03	
2786		40-45				.03	
2787		45-50				.03	
2788		50-55				.03	
2789		55-60				.02	
2790		60-65				.02	
2791		65-70				.02	
2792		70-75				.02	
2793		75-80				.02	
2794		80-85				.03	
2795		85-90				.02	
2796		90-95				<.02	
2797		95-100				<.02	80

SL-FORM 1

SAMPLE DATA SHEET

Collector J Tingley Area Gull Prospect, Mt. Hope Dist. Map USGS Garden Valley Quad. Date 10/26/67

Sample No.	TYPE	Location	Sample Environment	Sample Description	Geological notes & remarks	Analytical Results
R 2516	R	Location pit, northend Gull 13	Fresh cut	Opalite	Chip sample from bottom of dozer trench, Red & tan opalite & opalite breccia along fault	(Sample lost)
R 2517	R	Center Gull # 14	Outcrop	Dolomite	Brecciated, silicified, light grey & tan dolomite with some Jasper along fractures	
R 2518	R	Knob north of Nend Gull 14	Outcrop	Porphyritic Rhyolite	Light tan, porphyritic rhyolite intrusion, some tan limonite staining along fractures	
R 2519	R	NE of upper stock tank	Outcrop	Dolomite Breccia	Recrystallized & silicified Dolomitic (limestone?) breccia, recemented with Jasper & clear silica	
R 2520	R	South of upper stock tank	Outcrop	Fault Breccia	Vuggy, Fe stained Fault breccia, mostly maroon Jasper & Fe-stained Quartz.	
R 2521	R	Dozer cut, Small NW window	Fresh cut	Chert & Silicified limestone	Iron stained & fractured black Chert & silicified limestone, Upper plate rocks in or near thrust fault.	
R 2522	R	Road cut SW of Shaft	Fresh cut	Silicified Limestone	Fine grained, grey, silicified limestone with 1/32"-1/16" Jasper & calcite veinlets 2"-3" spacing	
R 2523	R	Northend Jasper ridge,	Outcrop	Dolomitic Limestone	Recrystallized & silicified dolomitic limestone, vuggy, w/ Qtz & calcite xls in vugs. some limonite spots	
R 2524	R	Northend, Jasper ridge	Outcrop	Dolomitic limestone & Jasper	Red, silicified dolomitic limestone, some Jasper, some calcite veining w/ limonite stained in calcite	
R 2525	R	South end, east side Jasper ridge	Outcrop	Dolomitic Limestone	Composite chip, 20 circular area, brecciated & recemented D. Limestone, white qtz & calcite veinlets	
R 2526	R	100' N of 2525	Outcrop	Calcite vein	Composite chip, irregular calcite vein, 5-7' width (pods in it) near Jasper mass. D.L. wall rock, brecciated & recemented.	
R 2527	R	300' N of 2525 & 2526	Outcrop	Quartz Calcite vein	2' wide Quartz-Calcite vein in wider calcite band or vein(?) near Jasper mass. Has cinn. brown limonite in leached cavities, slightly brecciated	
R 2528	R	2' west of 2527	Outcrop	Quartz Calcite band	Similar to 2527, only contains needle like grey radiating crystals of Stibnite	
R 2529	R	Shaft Area S end property	Outcrop	Quartz-Calcite vein	Massive, banded, Quartz-carbonate vein, 20-30' wide, vuggy w/ some dissem black metallic mineral, minor limonite staining, one area weakly Cu stained	

SL-FORM 1

SAMPLE DATA SHEET

Collector J. Tingley Area Sea Claims Map Gull Date 3/26/68

Sample No.	Type	Location	Sample Enviroment	Sample Description	Geological notes & remarks	Analytical Results Au	Analytical Results As ppm
2536	R	SW cor Sea 11	Outcrop	Vinini formation	Red brown argillite, near Rhyolite contact	.03	120
2537	R	Loc Mon, Sea 10	"	"	Green-brown fractured shale w/ cinnamon brown limonite flooding bedding planes & fractures	.04	30
2538	R	Stor Sea 8	"	"	Green-brown shale & sandstone w/ orange-brown soft limonite in cavities & fractures of shale Sulfide casts in ss.	.02	100
2539	R	Loc.mon. Sea 6	"	"	Buff - lt. tan quartzite, minor limonite points dissem throughout, some gr-brown shale.	.02	30
2540	R.	Loc.mon. Sea 4	"	"	Grey-black limestone, minor white calcite veinlets, lenses of grey chert, grey-brown on weathered surface	<.02	30
2541	R	WSC Sea 4	"	"	Grey silicified ls, tan on weathered surface Rock surfaces slickensided & coated w/ chalcedony, (possible fault zone)	<.02	40
2542	R	N.W quarter Sea 6	"	"	Grey-green shale near shear zone or fault Fracture coatings & fillings of cinn.-br. limonite	.05	100
2543	R	N center of Sea 8	"	"	Grey shale, chert, near shear zone limonite films on fracture surfaces	<.02	80
2544	R	WS center Sea 11	"	"	Rhyolite intrusive, light grey, 1/8" quartz eyes, fragment of black shale included in rhyolite	<.02	50
		~~SE corner~~ 6			Limonite stained material only sampled. Jointing in Rhyolite N40°E & N25°W, vert.		
2545	R	SE corner Sea 11	"	"	Contact zone rhyolite & dolomite, highly brecciated and silicified - hybrid rock containing quartz eyes, red hematitic staining on minute frac.	<.02	60
2546	R	NW cor Gull #43	"	"	Silicified dolomite breccia w/ Jasperoid & silica veining, dull brick red on weathered surface	.05	100
2547	R	East of ESC Sea 9	"	"	Fault zone in Rhyolite, bearing N20°E brick red jasperoid & rhyolite fragments, silica cement	.04	100
2548	R.	SE corner Sea 9	"	"	Fault zone near rhyolite-shale contact brecciated rhyolite w/ reddish hematite coating	<.02	40
2001	R	NE cor Sea 54	"	"	Red-brown hematite & limonite gossan material, some Jasperoid along ill-defined NISW fault zone.	<.02	80
2002	R	Loc. Mon. Sea 48	"	"	Black, thin-bedded siliceous shale, minor limonite along bedding	<.02	40
2003	R.	NW cor Sea 51	"	"	Fe stained Shale	.04	60

SL-FORM 1

SAMPLE DATA SHEET

Collector: J. Tingley Area: Gull Claims Map: Gull Date: 4/3/68

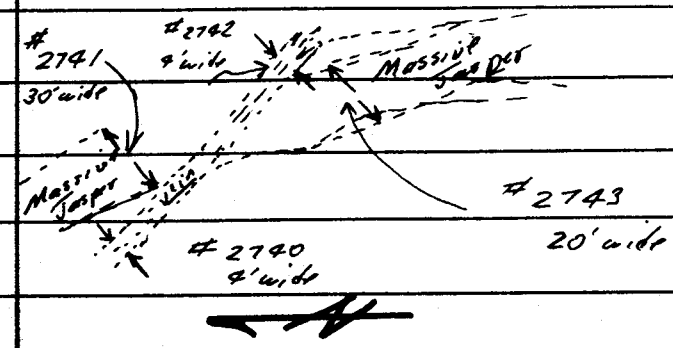
Sample No.	Type	Location	Sample Enviroment	Sample Description	Geological notes & remarks	Analytical Results (ppm) Au	As
2549	R	S.E. CTR. Gull 63	Outcrop	Rhyolite	Highly Fe-stained Rhyolite, hematite & limonite, inclusions of black shale, rock shows flow banding	.02	40
2550	R	S.W. cor Gull 65	"	Limestone	Dark grey-black Devils Gate limestone, mottled w/ white calcite blebs & tiny	.02	40
					calcite veinlets., petroliferous odor on fresh break		
2007	R	NW 1/4 Gull 7	"	Quartz Porphyry	Green-white, medium grain Quartz, porphyry dike, "fresh" black biotite books. dike 2' wide	.03	30
2008	R	"	"	Rhyolite	Soft, altered rhyolite on either side of dike, kaolinized, & brecciated & Fe stained	.02	50
2009	R	NW 1/4 Gull 9	"	Rhyolite	Fe stained, kaolinized, brecciated rhyolite, near ls. contact.	(not assayed)	
2010	R	S.E. cor Gull 11	"	Rhyolite	Fe stained, fractured rhyolite, Red brown to brown weathered surface.	(not assayed)	
2011	R	S 1/2 Gull 11	"	Dolomite	Brecciated, grey brown dolomite, breccia fragments 1/2"-1", filling material red-brown	.03	80
					Jasperoid, white calcite, clear silica		
2737	S.S.	N. end ctr. Sec #9	Clear stream	Sand & silt	Black silt & brown shaley sand from stream bed.	.03 ← standard → 30 .03 ← leach w/ KCL → 10	
2738	S.S.	N ¼ Sec 11 & 12 E ½ Sec 9	Dry stream bed	Sand	Med. gr. sand, mostly rhyolite fragments	(sample lost)	

SAMPLE DATA SHEET

Collector J. Tingley Area Jasperoid Area Map Gull Date [illegible]/11/68

Sample No.	Type	Location	Sample Enviroment	Sample Description	Geological notes & remarks	Analytical Results ppm Au	Ag	As
2740	R	S.W. cor of Gull #4	Outcrop	Quartz Carbonate Vein	Chip sample across 4' width of vein Brecciated Quartz carbonate vein, vuggy w/ cinn brown limonite points, "clouds"	4.0	24.0	500
		(same area Campbell #1219)			of fine-crystalline stibnite scattered throughout vein. Vein strike N35°W			
					dip 85° N.W. Massive red jasper on east wall, brecciated dolomite on west			
2741	R	East wall of 2740	Outcrop	Jasper	Massive, brick red, Jasper, brecciated & resilicified, minor white calcite veins	.08	-	80
					Chip sample across 30' width			
2742	R	120' SE of 2740	Outcrop	Quartz Carbonate vein	Mottled Quartz & carbonate veinlets in brecciated Jasper & Dolomite, on strike	.06	2.8	80
		(Same area as Campbell #1220)			of 2740 vein, but vein apparently feathers out into wall rock. Vein crosscuts			
					a N20°E fracture zone in Jasper outcrop Sample 4' wide			
2743	R	45' South of 2740	Outcrop	Jasper	Brick red Jasper & brecciated, Jasper cemented dolomite, Sample 20' wide	.16	1.6	100

Sketch of Sample Locations in Relation To Jasper ridge & Vein



SKYLINE LABS, INC.
SPECIALISTS IN GEOCHEMICAL EXPLORATION
12090 WEST 50TH PLACE, WHEAT RIDGE, COLORADO 80033 TEL.: (303) 424-7718

REPORT OF ANALYSIS

Job No. 3012

November 2, 1967

Union Pacific Railroad Company
Natural Resources Division
One East First Street, Suite 801
Reno, Nevada 89501

Attention: Mr. J. V. Tingley

16 samples of rock chips

Item	No. Sample	Au (ppm)	Hg (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Sb (ppm)	Mo (ppm)
1.	R-2517	.08	0.10	60	-	-	-	-	-	-
2.	R-2518	.02	<0.05	30	-	-	-	-	-	-
3.	R-2519	.08	0.05	40	-	-	-	-	-	-
4.	R-2520	.06	0.50	80	-	-	-	-	-	-
5.	R-2521	.03	0.25	80	-	-	-	-	-	-
6.	R-2522	.04	<0.05	30	-	-	-	-	5	-
7.	R-2523	2.5	15.	120	-	-	-	-	1,000	-
8.	R-2524	.06	0.60	100	-	-	-	-	-	-
9.	R-2525	.06	7.50	30	-	-	-	-	40	-
10.	R-2526	.94	30.	60	-	-	-	-	30	-
11.	R-2527	7.6	35.	~100*	-	-	-	-	30,000	-
12.	R-2528	3.1	30.	<50*	-	120	900	1.2	60,000	-
13.	R-2529	.38	20.	60	-	-	-	-	500	-
14.	R-2530	-	-	-	1250	40	450	-	-	2
15.	R-2531	-	139 ÷ 10	-	2000	120	50	-	-	2
16.	R-2532	-	-	-	4000	160	120	-	-	5

*Sb Interference

840/13 ≈ 65

Robinette

Charles E. Thompson
Charles E. Thompson
Chief Chemist

SKYLINE LABS, INC.
SPECIALISTS IN GEOCHEMICAL EXPLORATION
12090 WEST 50TH PLACE, WHEAT RIDGE, COLORADO 80033 TEL.: (303) 424-7718

REPORT OF ANALYSIS

Job No. 3034 March 21, 1968

Union Pacific Railroad Company
Natural Resources Division
P.O. Box 107
Battle Mountain, Nevada 89820

Attention: Mr. R. G. Kendall

32 Drill Cutting Samples

Item	Sample No.	Au (ppm)	Item	Sample No.	Au (ppm)
1.	R-2926	.03	21.	R-2946	.02
2.	R-2927	.03	22.	R-2947	.03
3.	R-2928	.04	23.	R-2948	.02
4.	R-2929	.03	24.	R-2949	.02
5.	R-2930	.03	25.	R-2950	.02
6.	R-2931	.03	26.	R-2951	.02
7.	R-2932	.04	27.	R-2952	.03
8.	R-2933	.03	28.	R-2953	.04
9.	R-2934	.03	29.	R-2954	.03
10.	R-2935	.03	30.	R-2955	.03
11.	R-2936	.03	31.	R-2956	.03
12.	R-2937	.04	32.	R-2957	.03
13.	R-2938	.04			
14.	R-2939	.03			
15.	R-2940	.03			
16.	R-2941	.03			
17.	R-2942	.03			
18.	R-2943	.04			
19.	R-2944	.04			
20.	R-2945	.03			

Charles E. Thompson
Chief Chemist

SKYLINE LABS, INC.
SPECIALISTS IN GEOCHEMICAL EXPLORATION
12090 WEST 50TH PLACE, WHEAT RIDGE, COLORADO 80033 TEL.: (303) 424-7718

REPORT OF ANALYSIS

Job No. 3035 March 20, 1968

Union Pacific Railroad Company
Natural Resources Division
P.O. Box 107
Battle Mountain, Nevada 89820

Attention: Mr. R. G. Kendall

155 Cutting Samples

Item	Sample No.	Au (ppm)	Item	Sample No.	Au (ppm)	Item	Sample No.	Au (ppm)
1.	R-2701	.03	26.	R-2764	.02	51.	R-2789	.02
2.	R-2702	.02	27.	R-2765	.03	52.	R-2790	.02
3.	R-2703	<.02	28.	R-2766	.02	53.	R-2791	.02
4.	R-2704	.02	29.	R-2767	.03	54.	R-2792	.02
5.	R-2705	.03	30.	R-2768	.03	55.	R-2793	.02
6.	R-2706	.05	31.	R-2769	.03	56.	R-2794	.03
7.	R-2707	<.02	32.	R-2770	.03	57.	R-2795	.02
8.	R-2708	.02	33.	R-2771	.02	58.	R-2796	<.02
9.	R-2709	.02	34.	R-2772	.03	59.	R-2797	<.02
10.	R-2710	.03	35.	R-2773	.02	60.	R-2798	.02
11.	R-2711	.04	36.	R-2774	.02	61.	R-2799	.03
12.	R-2712	.05	37.	R-2775	.03	62.	R-2800	.03
13.	R-2751	.04	38.	R-2776	.02	63.	R-2801	.03
14.	R-2752	.05	39.	R-2777	.03	64.	R-2802	.02
15.	R-2753	.03	40.	R-2778	.03	65.	R-2803	.02
16.	R-2754	.04	41.	R-2779	.03	66.	R-2804	.02
17.	R-2755	.02	42.	R-2780	.02	67.	R-2805	.03
18.	R-2756	.03	43.	R-2781	.04	68.	R-2816	.03
19.	R-2757	.02	44.	R-2782	.03	69.	R-2818	.03
20.	R-2758	.03	45.	R-2783	.02	70.	R-2819	.02
21.	R-2759	.03	46.	R-2784	.02	71.	R-2820	.02
22.	R-2760	.03	47.	R-2785	.03	72.	R-2821	.03
23.	R-2761	.03	48.	R-2786	.03	73.	R-2822	.03
24.	R-2762	.03	49.	R-2787	.03	74.	R-2823	.02
25.	R-2763	.03	50.	R-2788	.03	75.	R-2824	.02

Item	Sample No.	Au (ppm)	Item	Sample No.	Au (ppm)	Item	Sample No.	Au (ppm)
76.	R-2838	.04	106.	R-2868	.04	131.	R-2900	.03
77.	R-2839	.03	107.	R-2869	.03	132.	R-2901	.03
78.	R-2840	.02	108.	R-2870	.03	133.	R-2902	.02
79.	R-2841	<.02	109.	R-2871	.02	134.	R-2903	.02
80.	R-2842	<.02	110.	R-2878	.03	135.	R-2904	.03
81.	R-2843	<.02	111.	R-2879	.03	136.	R-2905	.03
82.	R-2844	.02	112.	R-2880	.02	137.	R-2906	.03
83.	R-2845	.03	113.	R-2881	.02	138.	R-2907	.02
84.	R-2846	.02	114.	R-2882	.02	139.	R-2908	.03
85.	R-2847	.04	115.	R-2883	.02	140.	R-2909	.03
86.	R-2848	.02	116.	R-2884	.04	141.	R-2910	<.02
87.	R-2849	.02	117.	R-2885	.03	142.	R-2911	.04
88.	R-2850	.04	118.	R-2886	.03	143.	R-2912	.04
89.	R-2851	.04	119.	R-2887	.03	144.	R-2913	.03
90.	R-2852	.02	120.	R-2888	.03	145.	R-2914	.03
91.	R-2853	.04	121.	R-2889	.03	146.	R-2915	.04
92.	R-2854	.04	122.	R-2890	.03	147.	R-2916	.04
93.	R-2855	.03	123.	R-2891	.02	148.	R-2917	.06
94.	R-2856	.04	124.	R-2892	.02	149.	R-2918	.03
95.	R-2857	.04	125.	R-2894	.02	150.	R-2919	.03
96.	R-2858	.04	126.	R-2895	.03	151.	R-2920	.04
97.	R-2859	.03	127.	R-2896	.03	152.	R-2921	.03
98.	R-2860	.04	128.	R-2897	.03	153.	R-2922	.03
99.	R-2861	.04	129.	R-2898	.03	154.	R-2923	.02
100.	R-2862	.04	130.	R-2899	.02	155.	R-2924	.02
101.	R-2863	.03						
102.	R-2864	.03						
103.	R-2865	.04						
104.	R-2866	.04						
105.	R-2867	.04						

Charles E. Thompson
Chief Chemist

V.V.T.

MAR 25 1968

SKYLINE LABS, INC.
SPECIALISTS IN GEOCHEMICAL EXPLORATION
12090 WEST 50TH PLACE, WHEAT RIDGE, COLORADO 80033 TEL.: (303) 424-7718

REPORT OF ANALYSIS

Job No. 3037 March 21, 1968

Union Pacific Railroad Company
Natural Resources Division
One East First Street, Suite 801
Reno, Nevada 89501

Attention: Mr. J. V. Tingley

3 Rock Core Samples

Item	Sample No.	Au (ppm)	Ag (ppm)	As (ppm)	Hg (ppm)
1.	R-2533	.02	12.	300	.08
2.	R-2534	.03	11.	50	.05
3.	R-2535	.04	12.	200	.08

Charles E. Thompson
Charles E. Thompson
Chief Chemist

APR 18 1968

SKYLINE LABS, INC.
SPECIALISTS IN GEOCHEMICAL EXPLORATION
12090 WEST 50TH PLACE, WHEAT RIDGE, COLORADO 80033 TEL.: (303) 424-7718

REPORT OF ANALYSIS

Job No. 3037 April 16, 1968

Union Pacific Railroad Company
Natural Resources Division
P.O. Box 107
Battle Mountain, Nevada 89820

Attention: Mr. R. G. Kendall

17 Core Samples

Item	Sample No.	Au (ppm)
1.	R-2958	.02
2.	R-2959	.02
3.	R-2960	.14
4.	R-2961	.04
5.	R-2962	.02
6.	R-2963	.02
7.	R-2964	.02
8.	R-2965	.02
9.	R-2966	<.02
10.	R-2967	.02
11.	R-2968	<.02
12.	R-2969	.02
13.	R-2970	.03
14.	R-2971	.02
15.	R-2972	.02
16.	R-2973	.02
17.	R-2974	.03

Charles E. Thompson
Chief Chemist

APR 1 1968

Gull

SKYLINE LABS, INC.
SPECIALISTS IN GEOCHEMICAL EXPLORATION
12090 WEST 50TH PLACE, WHEAT RIDGE, COLORADO 80033 TEL.: (303) 424-7718

REPORT OF ANALYSIS

Job No. 3039

April 8, 1968

Union Pacific Railroad Company
Natural Resources Division
P.O. Box 107
Battle Mountain, Nevada 89820

Attention: Mr. R. G. Kendall

25 Drill Cutting Samples

Item	Sample No.	Au (ppm)	Item	Sample No.	Au (ppm)
1.	R-2806	.04	16.	R-2833	.04
2.	R-2807	.03	17.	R-2834	.03
3.	R-2808	.03	18.	R-2835	.03
4.	R-2809	.02	19.	R-2836	.02
5.	R-2810	.04	20.	R-2873	.03
6.	R-2811	.06	21.	R-2874	.06
7.	R-2812	.05	22.	R-2875	.03
8.	R-2813	.02	23.	R-2876	.06
9.	R-2814	.04	24.	R-2877	.04
10.	R-2825	.04	25.	R-2893	.03
11.	R-2826	.03			
12.	R-2829	.04			
13.	R-2830	.04			
14.	R-2831	.04			
15.	R-2832	.03			

Charles E. Thompson
Chief Chemist

APR 11 1968

SKYLINE LABS, INC.
SPECIALISTS IN GEOCHEMICAL EXPLORATION
12090 WEST 50TH PLACE, WHEAT RIDGE, COLORADO 80033 TEL.: (303) 424-7718

REPORT OF ANALYSIS

Job No. 3040 April 9, 1968

Union Pacific Railroad Company
Natural Resources Division
One East First Street, Suite 801
Reno, Nevada 89501

Attention: Mr. J. V. Tingley

22 Pulps

Item	Sample No.	As (ppm)	Item	Sample No.	As (ppm)
1.	R-2701	100	12.	R-2858	120
2.	R-2712	120	13.	R-2877	100
3.	R-2751	50	14.	R-2878	120
4.	R-2758	50	15.	R-2893	100
5.	R-2777	50	16.	R-2894	80
6.	R-2778	50	17.	R-2910	80
7.	R-2797	80	18.	R-2911	120
8.	R-2798	80	19.	R-2924	120
9.	R-2818	80	20.	R-2926	80
10.	R-2838	60	21.	R-2944	100
11.	R-2857	80	22.	R-2956	80

Charles E. Thompson
Charles E. Thompson
Chief Chemist

APR 29 1968

SKYLINE LABS, INC.
SPECIALISTS IN GEOCHEMICAL EXPLORATION
12090 WEST 50TH PLACE, WHEAT RIDGE, COLORADO 80033 TEL.: (303) 424-7718

REPORT OF ANALYSIS

Job No. 3047 April 25, 1968

Union Pacific Railroad Company
Natural Resources Division
One East First Street, Suite 801
Reno, Nevada 89501

Attention: Mr. J. V. Tingley

13 Rock and 1 Stream Sediment Sample

Item	Sample No.	Au (ppm)	Ag (ppm)	As (ppm)
1.	R-2007	.03	-	30
2.	R-2008	.02	-	50
3.	R-2011	.03	-	80
4.	R-2549	.02	-	40
5.	R-2550	.02	-	40
6. Sawyer Property	R-2734	.03	-	120
7.	R-2735	.04	-	50
8.	R-2736	.42	-	800
9.	R-2737	.04	-	160
10.	R-2740	4.0	24.	500
11.	R-2741	.08	-	80
12.	R-2742	.06	2.8	80
13.	R-2743	.16	1.6	100
14.	R-2739 (KCl leach)	.03	-	10
15.	R-2739 (<60)	.03	-	30

Charles E. Thompson
Charles E. Thompson
Chief Chemist

APR 15 1968

SKYLINE LABS, INC.
SPECIALISTS IN GEOCHEMICAL EXPLORATION
12090 WEST 50TH PLACE, WHEAT RIDGE, COLORADO 80033 TEL.: (303) 424-7718

REPORT OF ANALYSIS

Job No. 3041 April 11, 1968

Union Pacific Railroad Company
Natural Resources Division
One East First Street, Suite 801
Reno, Nevada 89501

Attention: Mr. J. V. Tingley

19 Rock Samples

Item	Sample No.	Au (ppm)	Ag (ppm)	As (ppm)	Hg (ppm)
1.	R-2001	<.02	-	80	-
2.	R-2002	<.02	-	40	-
3.	R-2003	.04	-	60	-
4.	R-2004	-	1.0	-	<.05
5. Austin	R-2005	-	3.2	-	<.05
6.	R-2006	-	2.6	-	<.05
7.	R-2536	.03	-	120	-
8.	R-2537	.04	-	30	-
9.	R-2538	.02	-	100	-
10.	R-2539	.02	-	30	-
11.	R-2540	<.02	-	30	-
12.	R-2541	<.02	-	40	-
13.	R-2542	.05	-	100	-
14.	R-2543	<.02	-	80	-
15.	R-2544	<.02	-	50	-
16.	R-2545	<.02	-	60	-
17.	R-2546	.05	-	100	-
18.	R-2547	.04	-	100	-
19.	R-2548	<.02	-	40	-

Charles E. Thompson
Charles E. Thompson
Chief Chemist

APR 29 1968

SKYLINE LABS, INC.
SPECIALISTS IN GEOCHEMICAL EXPLORATION
12090 WEST 50TH PLACE, WHEAT RIDGE, COLORADO 80033 TEL.: (303) 424-7718

REPORT OF ANALYSIS

Job No. 3048

April 25, 1968

Union Pacific Railroad Company
Natural Resources Division
P.O. Box 107
Battle Mountain, Nevada 89820

Attention: Mr. R. G. Kendall

10 Cores

Item	Sample No.	Au (ppm)	As (ppm)
1.	R-2975	.04	120
2.	R-2976	.04	50
3.	R-2977	.02	20
4.	R-2978	.05	20
5.	R-2979	.05	30
6.	R-2980	.02	30
7.	R-2981	.04	40
8.	R-2982	.03	50
9.	R-2983	.04	60
10.	R-2984	.04	40

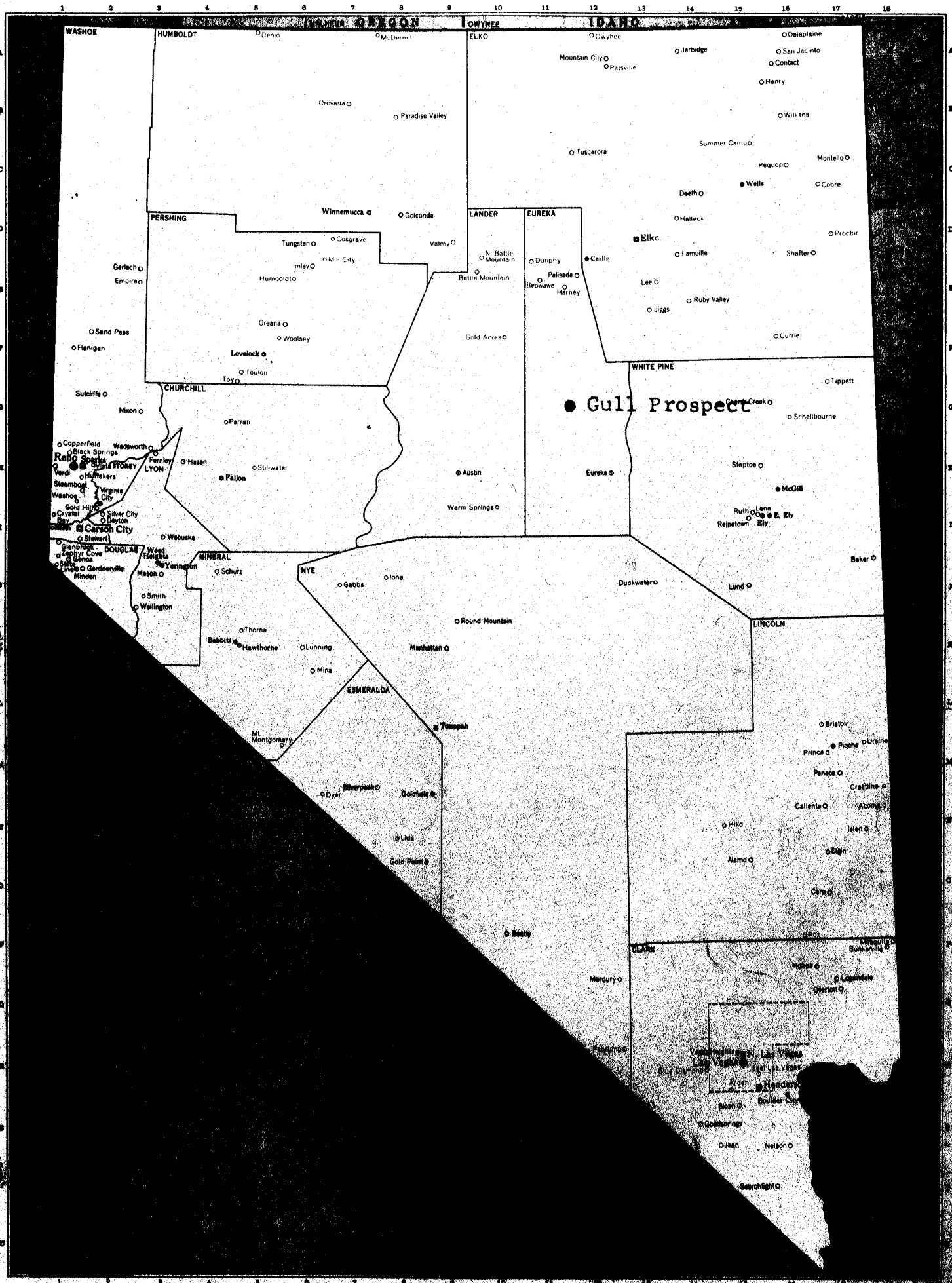
Charles E. Thompson
Chief Chemist

RAND McNALLY

STATE COUNTY-CITY MAP

NEVADA

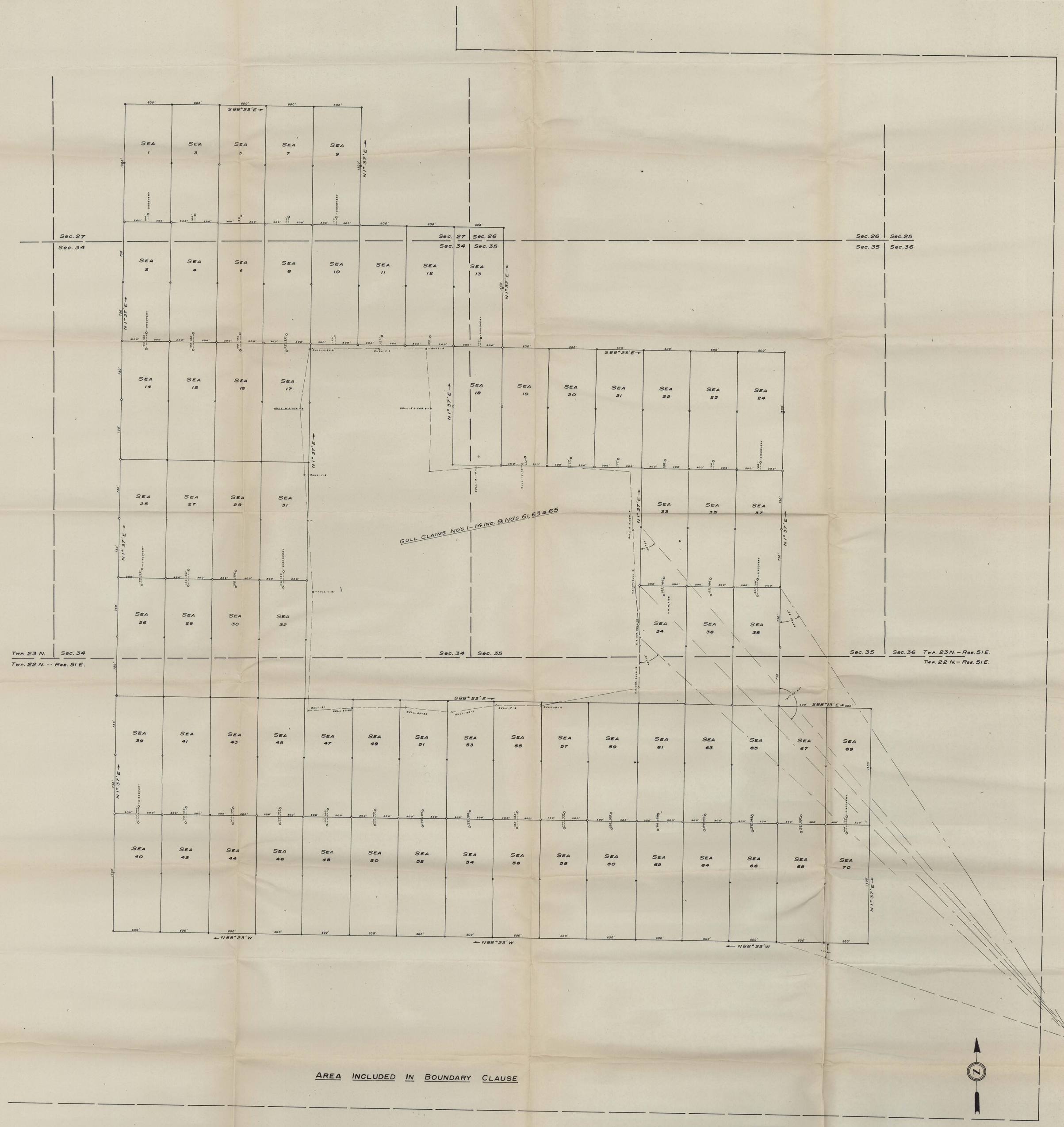
SIZE 8½ x 11



MADE IN U.S.A.

Specially engraved and indexed for use with the Rand McNally Commercial Atlas and Marketing Guide.

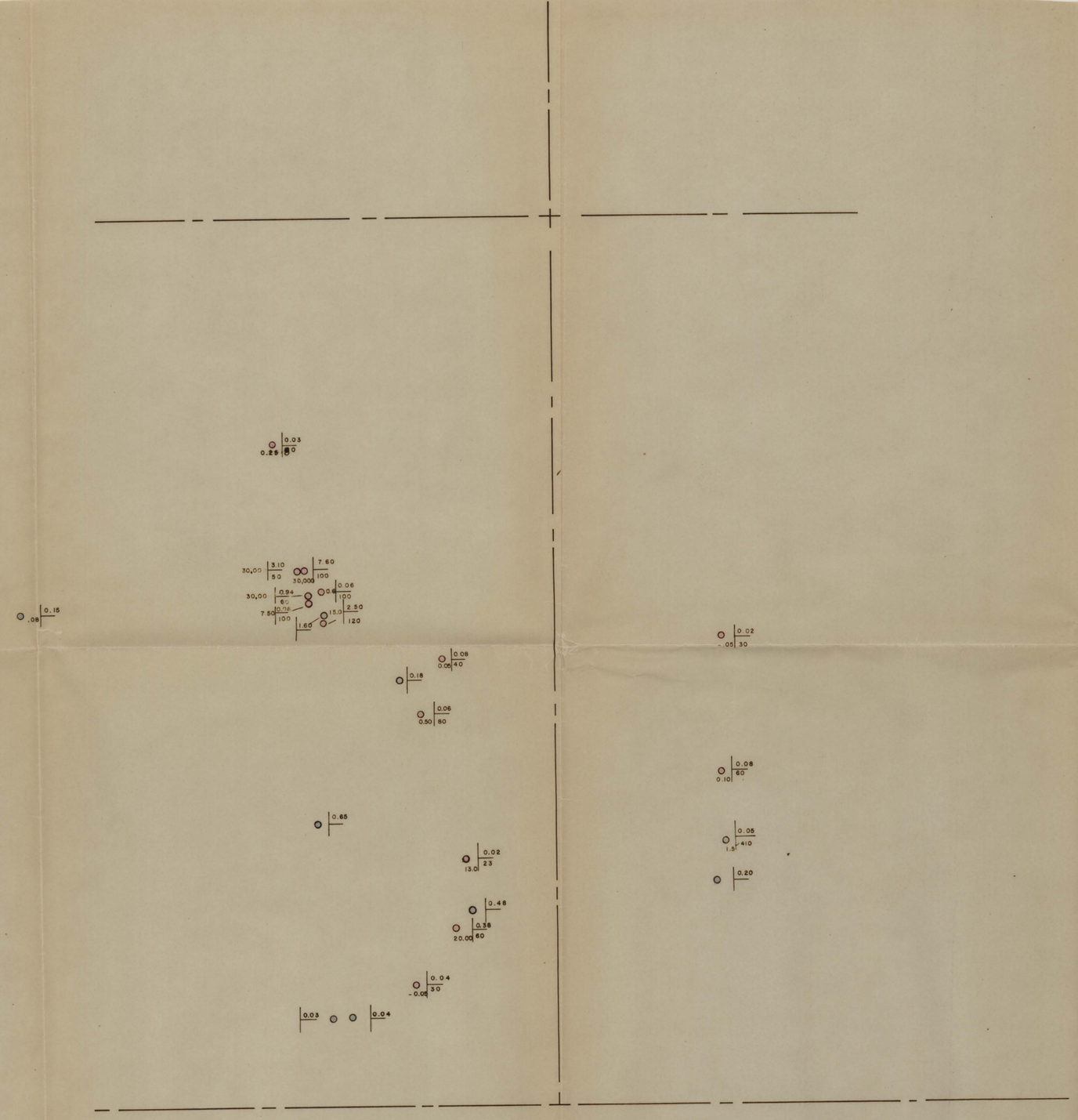
This Map is also available with County Outlines.



SEA MINING CLAIMS
MOUNT HOPE MINING DISTRICT
TWPS 22 & 23 NORTH
RANGE 51 EAST
EUREKA COUNTY, NEVADA
Scale 1" = 400'

(119) Item 7

3220 0007 (B)



GEOCHEM OVERLAY

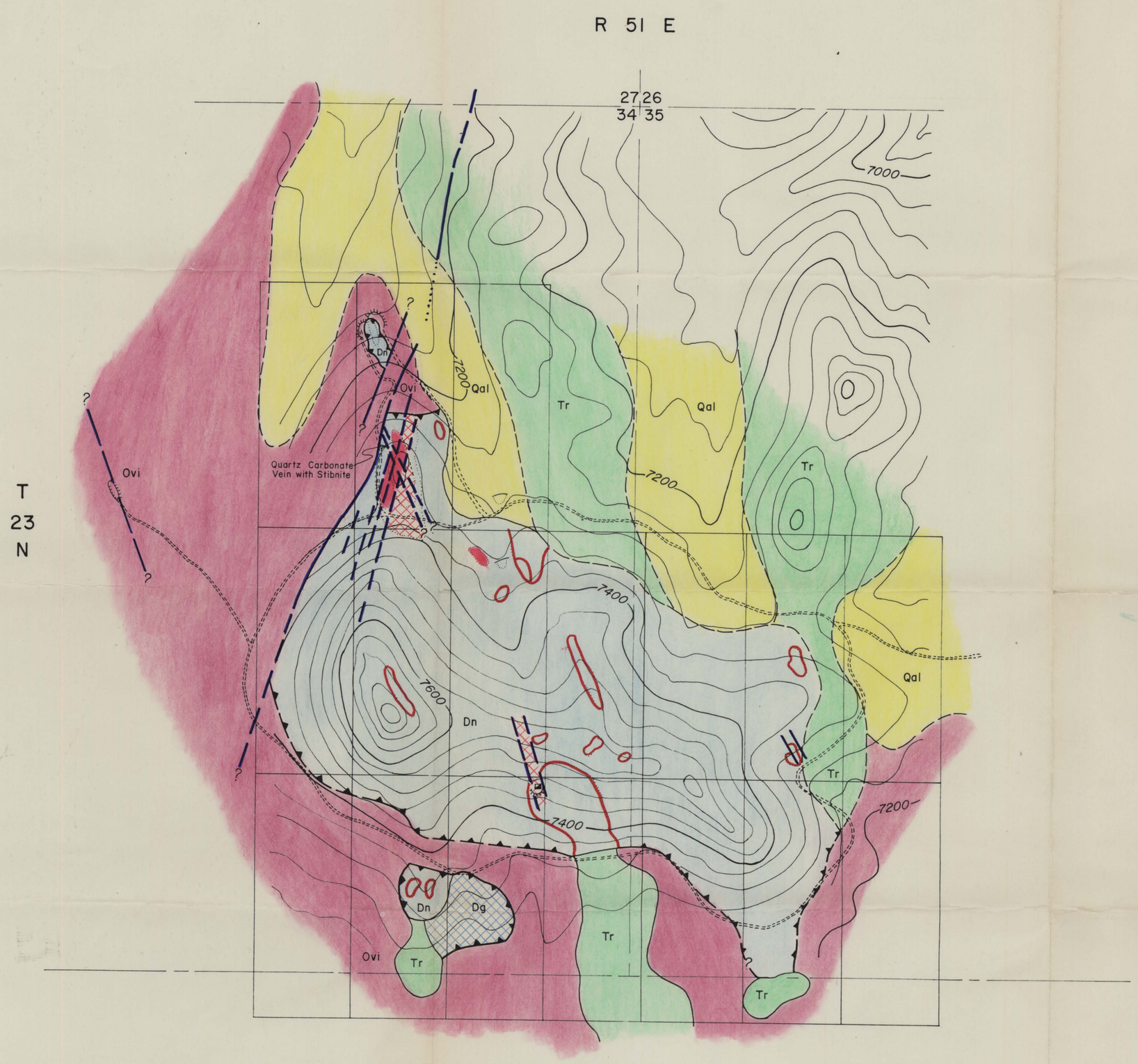
GOLD / MERCURY / ARSENIC — Sample location, showing metal values

(VALUES IN PPM)

Sample by Campbell

Sample by Tingley

119
Item 7
Plate H



EXPLANATION

- Qal — Quaternary alluvium
- Tr — Tertiary rhyolite
- Ovi — Ordovician Vinini chert
- Dg — Devonian Devils Gate limestone
- Dn — Devonian Nevada dolomite
- Silicification
- Quartz-calcite veining
- Jasper
- Thrust contact, Teeth on upper plate
- Fault Trace

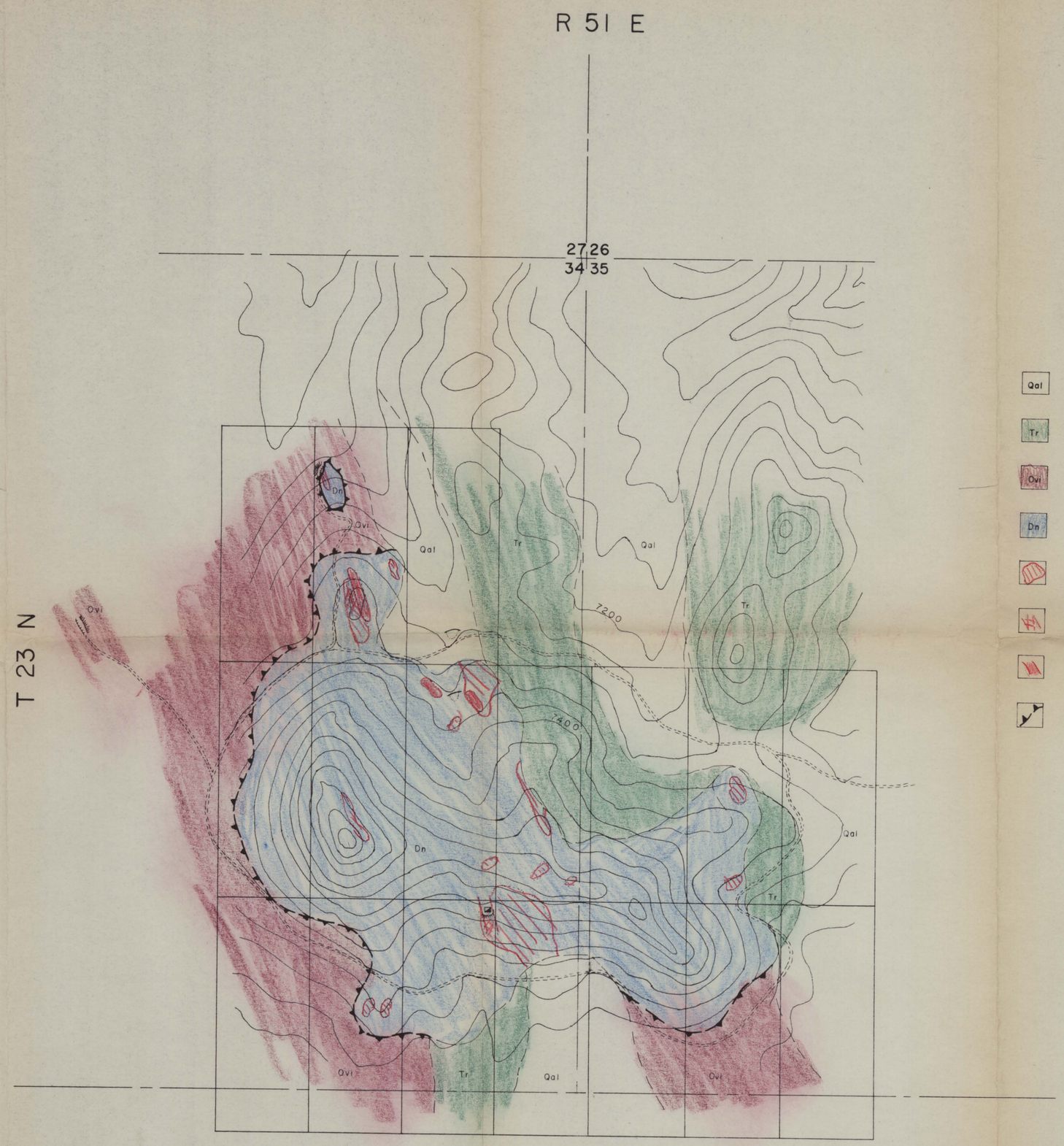
UNION PACIFIC RAILROAD COMPANY
NATURAL RESOURCES DIVISION—MINING
LOS ANGELES, CALIFORNIA

GEOLOGIC MAP
GULL PROSPECT
MOUNT HOPE DISTRICT
CONTOUR INTERVAL 40 FEET
EUREKA COUNTY, NEVADA

500' 0 500' 1000'
SCALE

BY:
DATE: MAY, 1968
TO ACCOMPANY

32200007 Item 7 (119) (d)



Explanation

Qal	Quaternary alluvium
Tr	Tertiary rhyolite
Ovi	Ordovician Vinini chert
Dn	Devonian Nevada dolomite
	Silicification
	Quartz-calcite veining
	Jasper
	Thrust contact

GULL PROSPECT

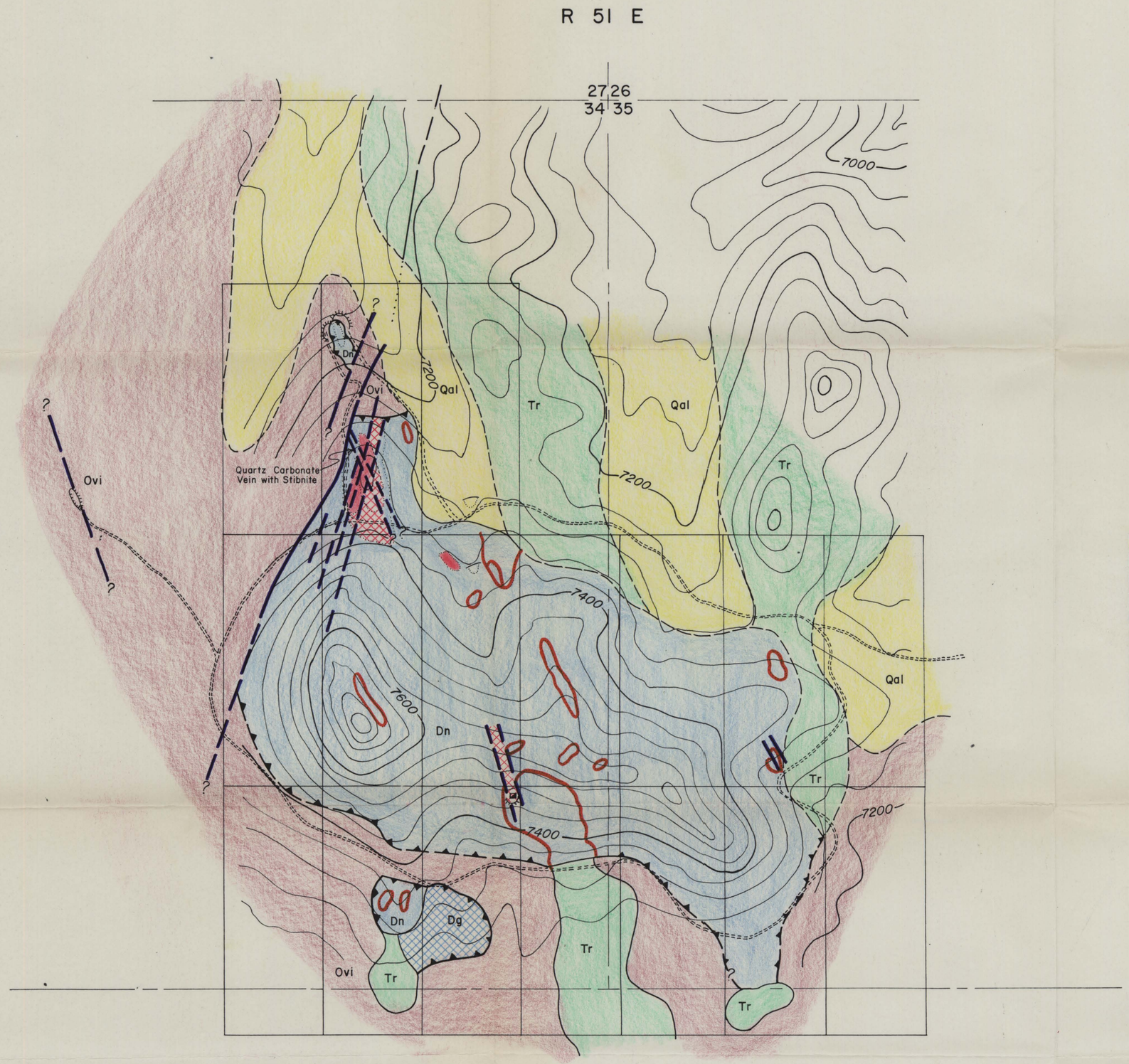
MOUNT HOPE DISTRICT

EUREKA COUNTY, NEVADA

1" = 500'

3220 0007

Item 7 Plate G (119)



EXPLANATION

- Qal — Quaternary alluvium
- Tr — Tertiary rhyolite
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- Dg — Devonian Devils Gate limestone
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- Silicification
- Quartz-calcite veining
- Jasper
- Thrust contact, Teeth on upper plate
- Fault Trace

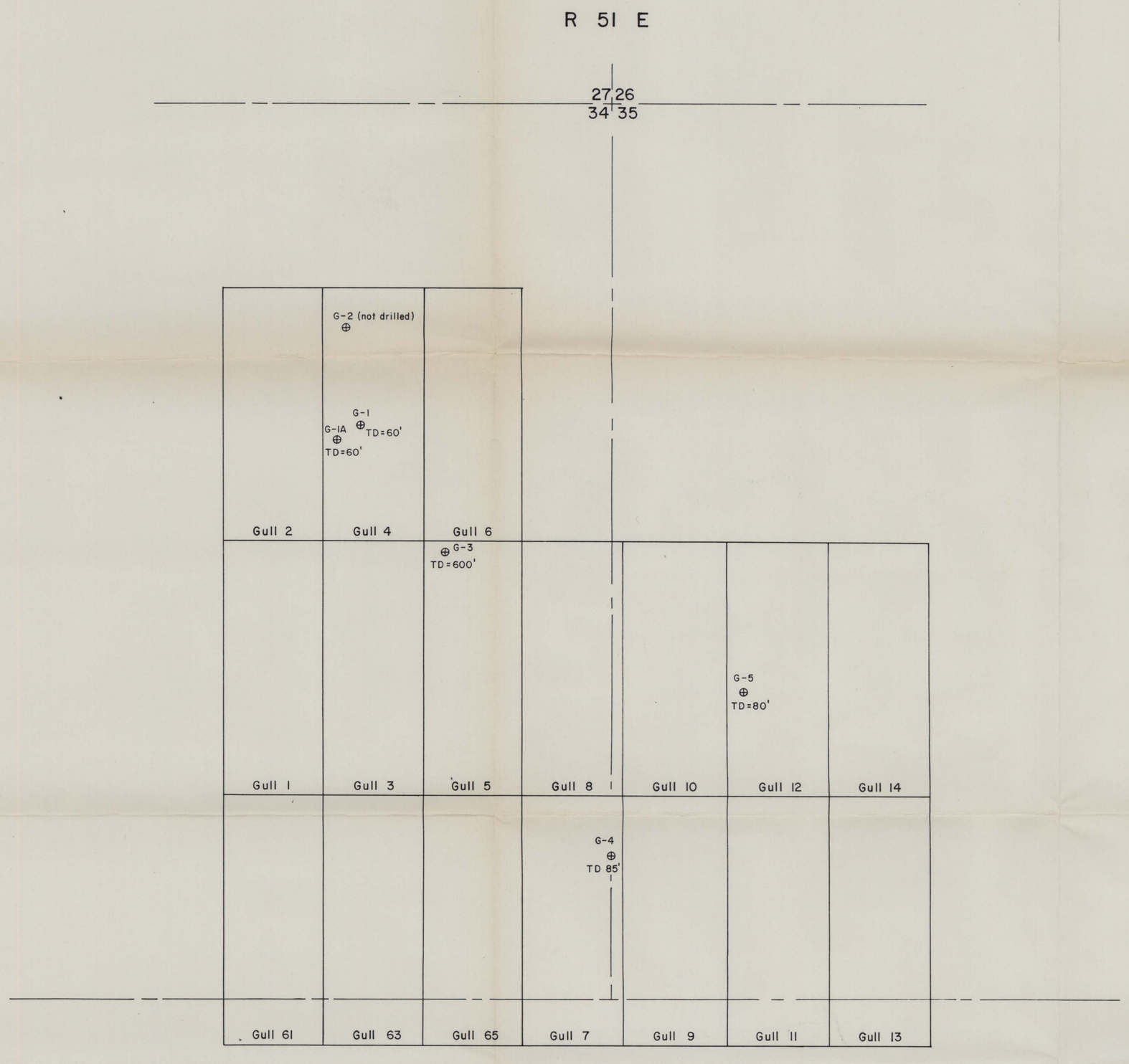
UNION PACIFIC RAILROAD COMPANY
NATURAL RESOURCES DIVISION—MINING
LOS ANGELES, CALIFORNIA

GEOLOGIC MAP
GULL PROSPECT
MOUNT HOPE DISTRICT
CONTOUR INTERVAL 40 FEET
EUREKA COUNTY, NEVADA

500' 0 500' 1000'
SCALE

BY:
DATE: MAY, 1968
TO ACCOMPANY

32200007 Item 7 (119)(E)



LEGEND

G-1
⊕ Drill Hole, showing total depth
TD=60'

UNION PACIFIC RAILROAD COMPANY
NATURAL RESOURCES DIVISION—MINING
LOS ANGELES, CALIFORNIA

DRILL HOLE LOCATION MAP
GULL PROSPECT
MOUNT HOPE DISTRICT

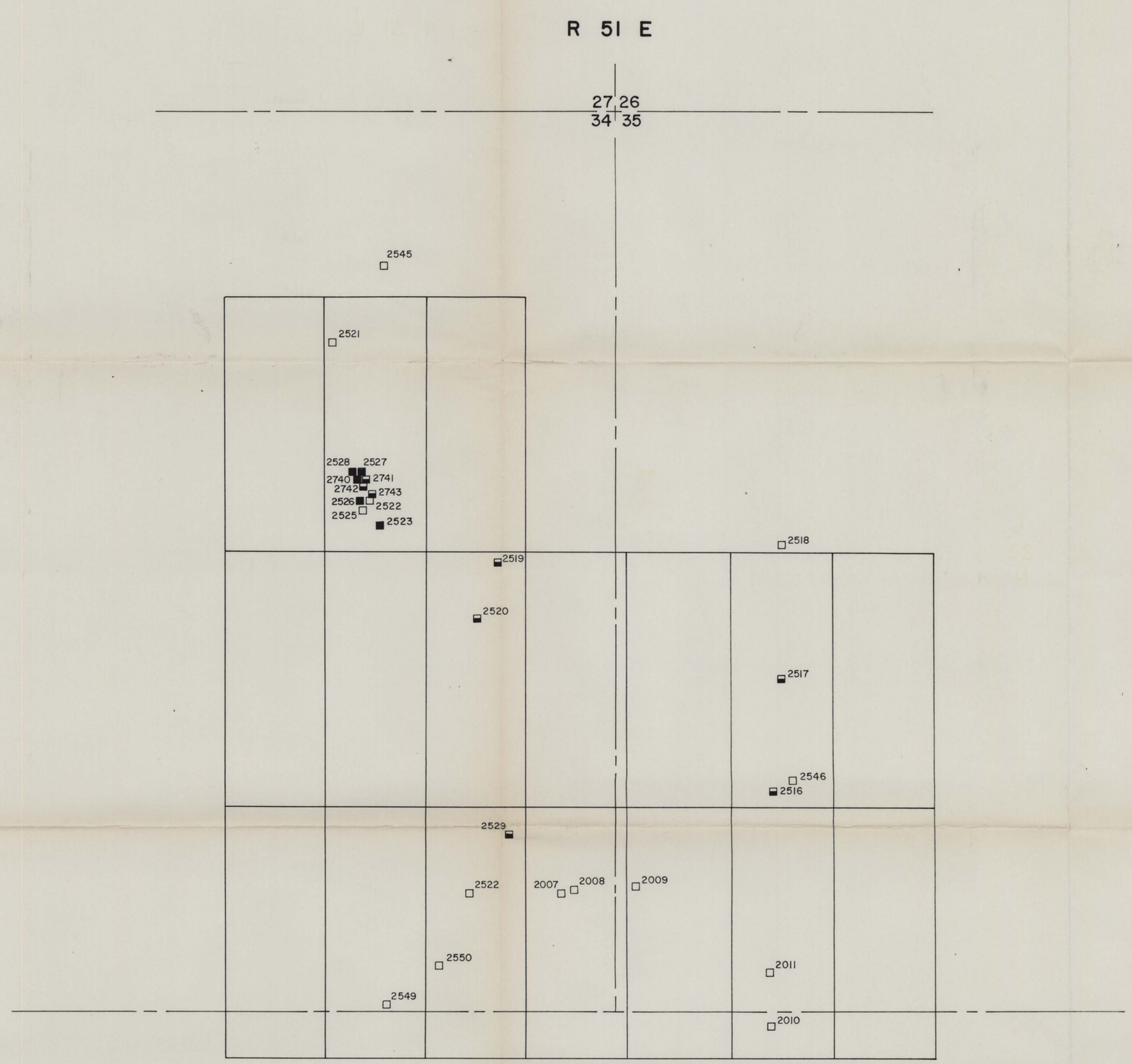
EUREKA COUNTY, NEVADA

500' 0 500' 1000'
SCALE

BY:
DATE: MAY, 1968

TO ACCOMPANY

32200007 Item 7 119 (1)



LEGEND

□ Sample Location

Varying Metal Content
(ppm Au)

□ Background (-.05 ppm)
◨ Anomalous (.05 – 1.0 ppm)
■ Strongly Anomalous (+1.0 ppm)

UNION PACIFIC RAILROAD COMPANY
NATURAL RESOURCES DIVISION – MINING
LOS ANGELES, CALIFORNIA

SAMPLE LOCATION MAP
GULL PROSPECT
MOUNT HOPE DISTRICT

EUREKA COUNTY, NEVADA

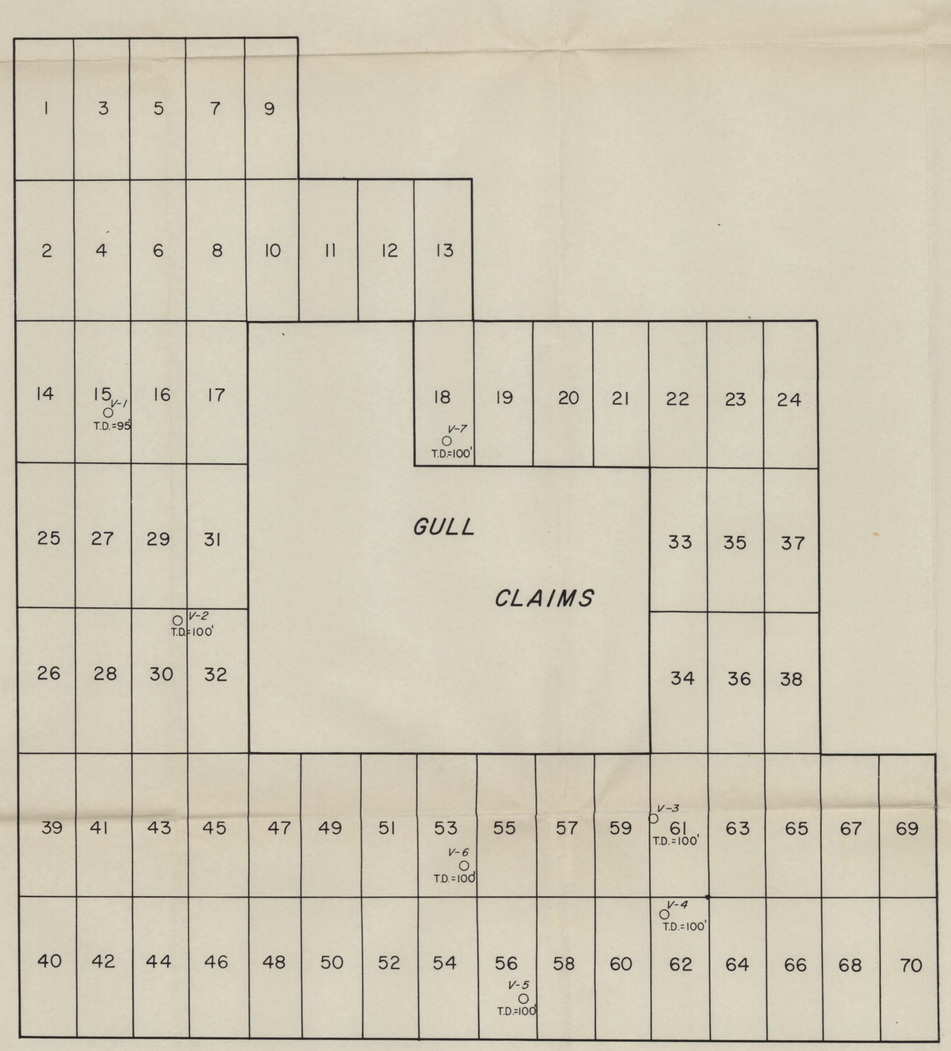
500' 0 500' 1000'
SCALE

BY:

DATE: MAY, 1968

TO ACCOMPANY

3220 0007 Item 7 (119) (E)



V-7 T.D.=100' VALIDATION DRILL HOLE

VALIDATION DRILL HOLE LOCATION MAP
SEA CLAIMS

(119) Item 7 (A)

32200007