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James Doyle Sell Mining Collection

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JDS

ASARCO

Southwestern Exploration Division

June 20, 1991

J.D. Sell

Stanton Area
Geologic Followup
Yavapai County, AZ

Results have been received from the followup sampling program based on recommendations from J.D. Sell (2/20/91 file memo) in a ground check of AEM anomalies. The host rocks in the area are granites, metavolcanics and possibly some diorite dikes and/or sills. The prevailing structures appear to be striking N30-40W dipping 40NE (Map 1). These structures are fault zones, quartz veins, and altered zones in the hanging wall and footwall of the fault structures. Some of the altered zones are up to 20+' thick and are characterized by argillic alteration, especially in the footwall of the structures. Grades range from 462 ppb Au (LW-12) to .043 opt Au (LW-30). The quartz veins are noticeably very high grade ranging from .107 opt Au (LW-33) to 1.0 opt Au (LW-16) over 1.5'. While these assays are very impressive, the width and configuration of the zone is not amenable to open pittable ore; however, it might be good for a small mining operation. The highest grade quartz veins do not appear to show continuity along strike and are probably discontinuous structures.

Based upon the results of the sampling, no further work is recommended in the area as the potential targets are too small. Sample descriptions with assays are attached.

Mark A. Miller

MAM:mek

Requested MAM to add the 31-element American Lab Report data to this + his Red Bluff file. No need to ignore a loose data!

STANTON AREA

Yavapai County, AZ

Yarnell 7½' Quadrangle

LW-1 Center, NW¼, Sec. 6, R4W, T9N. Adit zone. Center of shear zone, gouge and shears 4'-6' thick in granite, striking N30°W, dipping 40°-50°NE. MnO_2 dendrites and minor FeOx. (0.460 ppm Au, 1.70 ppm Ag)

LW-2 As above. Adit zone. Footwall portion of shear zone, medium granular granite, crushed but intact, with abundant pyrite casts and some MnO_2 seams, ±4' stratigraphic cut. (0.006 ppm Au, 0.05 ppm Ag)

LW-3 As above. Adit zone. Hanging wall portion of shear zone, large blocky granite, some pyrite casts and abundant MnO_2 dentrites, ±4' stratigraphic cut. (2.300 ppm Au, 1.90 ppm Ag)

Note: Above zone strikes toward Octave Mine to the southeast. Also probably forms saddle portion of ridge to northwest.

LW-4 NE¼NE¼, Sec. 1, R5W, T9N. Open cut zone. On west side of cut. 4' Sample of altered pyritized, sheared metavolcanics, adjacent to rhyolite dike. Zone strikes N-S, dipping vertical to 80°E. Contains pods of plus 10% yellow orange FEOx in clay gouge. (0.012 ppm Au, 0.25 ppm Ag)

LW-5 As above. East wall of cut. ±5' Stratigraphic cut in massive but shattered metavolcanics (which dip flatly to east) with seams and fractures of clay with orange FeOx in gouge. (0.006 ppm Au, 0.05 ppm Ag)

LW-6 As above. Northwest wall of cut. On east side of rhyolite dike (dike is about 4' wide, dipping near vertical). 10' Stratigraphic cut in shattered, bleached metavolcanics, with 1' vertical gouge zone on eastern edge. Abundant pyrite casts and yellow-orange FeOx coloration with black MnO_2 dendrites. (0.010 ppm Au, 0.15 ppm Ag)

Note: Above zone is below the projection of the structure in samples LW-1, -2, -3.

LW-7 NE¼NE¼, Sec. 1, R5W, T9N. In suboutcrop in small drainage cutting road to open cut (±500' from cut). Perhaps part of same zone as sampled by LW-4. Highly altered metavolcanics with yellow-orange FeOx throughout. (0.010 ppm Au, 0.15 ppm Ag)

No Samples 8 - 11

LW-12 Footwall of fault N40°W. Strong gouge and possible sericite alteration "Braided" quartz zones within gouge, little FeOx. (462 ppb Au)

LW-13 Fault Zone with cross-cutting quartz veins. Fault zone is 7-8' wide strong gouge, limonite casts. (224 ppb Au)

STANTON AREA

Yavapai County, AZ

LW-14 FeOx on fractures in hanging wall. Some quartz veining in granites. (589 ppb Au)

LW-15 Hanging wall of fault little "knots" of quartz with pyrite/limonite within silic. granitic rock - quartz eyes in intrusive? (.086 opt Au) Exposed hanging wall zone +15' thick fault zone approximately 50' thick.

LW-16 Quartz vein 1-1.5' thick above FeOx pyrite casts N40°W 35°NE. (.99 opt Au)

LW-17 Wall Rock of vein hanging wall and footwall propylitic and sericitic alteration outward from vein zone. Small white quartz vein (post mineral?) in footwall. Total sample is 5 vertical feet. (.043 opt Au)

LW-18 Random chip in weakly altered granite. Black mineral, possibly specularite? 2% FeOx on fractures, oxidation rims but no live limonite. Two areas sampled 50' diameter. (324, 49 ppb Au)

LW-19 Random chip in weakly altered granite. Black mineral, possibly specularite? 2% FeOx on fractures, oxidation rims but no live limonite. Two areas sampled 50' diameter. (324, 49 ppb Au)

LW-20 Small dump with weak alteration slt FeOx on fractures. Rock appears pegmetitic. (120 ppb Au)

LW-21 Myers Mine - Collapsed adit west of mine. Possibly weak propylitic alteration of granite. General structure N75°W 40°N. Sampled 10' of hanging wall above vein. (155 ppb Au)

LW-22 Small cut on 3" quartz vein N40°W 30°NE. Hanging wall altered/sampled. Propylitic Alteration (148 ppb Au)

LW-23 Small dump - propylitic alteration. (70 ppb Au)

LW-24 Small dump - looks like quartz porphyry. Possibly specularite. (45 ppb Au)

LW-25 Open Cut - Sheared metavolcanics (same as LW 4, 5, 6). (7 ppb Au)

LW-26 Footwall of Fault Zone - very similar to zone seen in LW-12 N40°W 55°NE 5' vertical sample. (509 ppb Au)

LW-27 V. select quartz dump sample - FeOx only. (836 ppb Au)

LW-28 Hanging wall of Fe stained zone in granite - siliceous? Looks very much like LW-12 zone. (597 ppb Au)

LW-29 Hanging wall of zone - metavolcanics? (mafic) strong FeOx (probably from mafic RKS). Strongly sheared - 6' sampled out of 15'. (8 ppb Au)

LW-30 Footwall altered and gougy - granite sampled 5' (v). (.043 opt Au)

STANTON AREA

Yavapai County, AZ

LW-31 Hanging wall of quartz vein - small open cut. Biotite → Chlorite?, Sericite
10' v. cut in granite. (216 ppb Au)
Quartz vein N85°W 40°NE (1' vein. not sampled)

LW-32 Wall rock of quartz vein - Muscovite → Chlorite? (700 ppb Au)
5' vert chip.

LW-33 1" Quartz vein, white minor Fe staining (.107 ppb Au)

LW-34 5' V. chip hanging wall slightly altered. possible silic. minor FeOx
on fracture surfaces. (249 ppb Au)

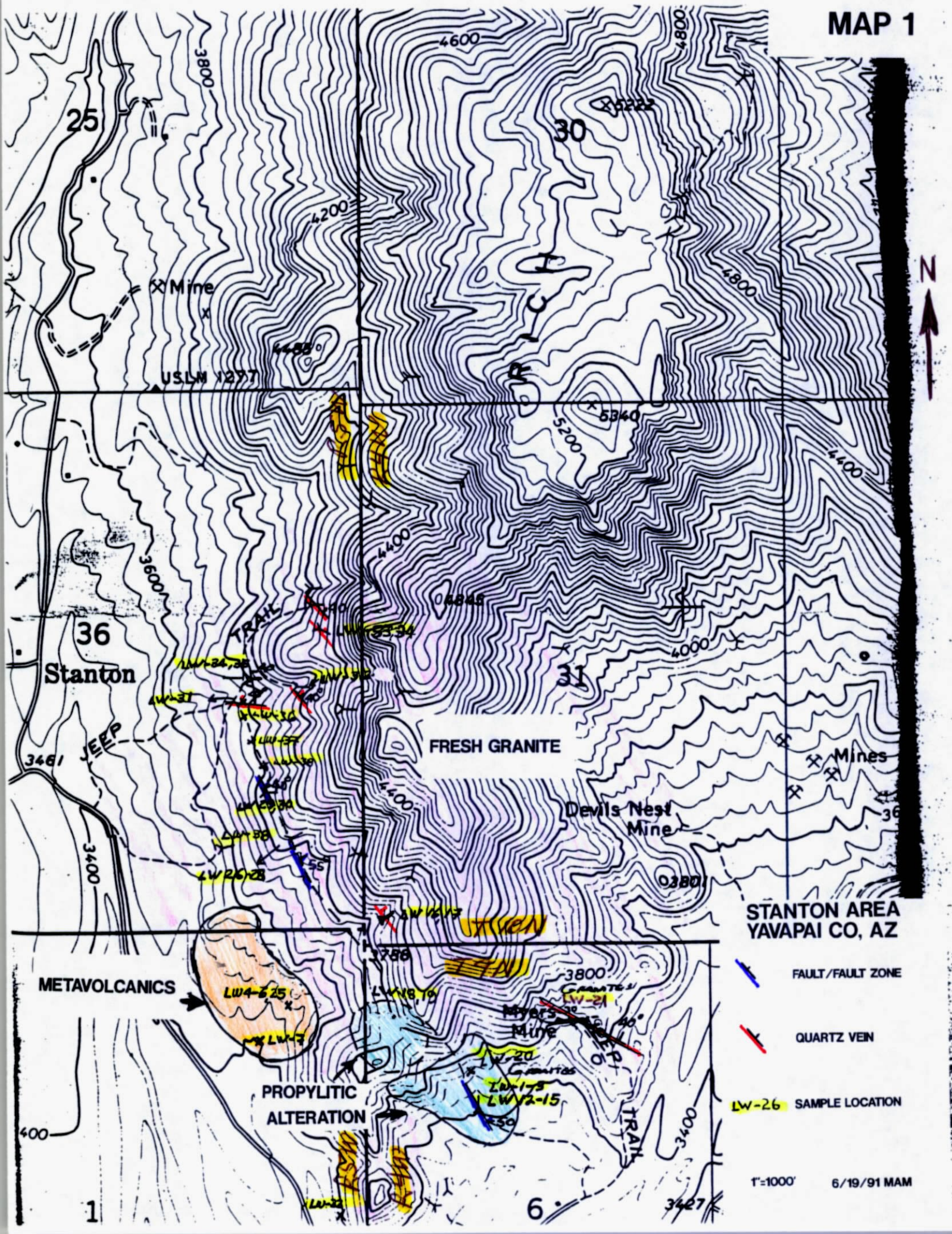
LW-35 Footwall strong gouge/sericite; quartz frags. within footwall.
5' v. chip. (.039 opt Au)

LW-36 Road Cut 800' North of LW-30 - small cut. Possible alteration.
Granite looks graphic. (.027 opt Au)

LW-37 600' N of LW-30, weakly altered in granite. (25 ppb Au)

LW-38 LW-38 200' N of LW-30 weak alteration. FeOx stained fractures.
(98 ppb Au)

LW-39 Footwall of fault zone 6' vertical sample. (13 ppb Au)
Abundant Fe oxides.


MAP 1
N
25
30
36
31
1
6
Stanton
Mine
USLM 1277
FRESH GRANITE
Devils Nest Mine
Mines
Myers Mine
METAVOLCANICS
PROPYLITIC ALTERATION
TRAIL
JEEP
STANTON AREA
YAVAPAI CO, AZ
FAULT/FAULT ZONE
QUARTZ VEIN
LW-26 SAMPLE LOCATION
1"=1000'
6/19/91 MAM

RB
Red Bluff Mine / LW Santa Ana

1500 GLENDALE AVE. SPARKS
NEVADA 89431
TELEPHONE (702) 356 0606
FACSIMILE (702) 356 1413

[redacted]

ELEMENT / SAMPLE	Ag PPM	Al %	As PPM	B PPM	Ba PPM	Bi PPM	Ca %	Cd PPM	Co PPM	Cr PPM	Cu PPM	Fe %	Hg PPM	K %	La PPM	Mg %	Mn PPM	Mo PPM	Na %	Ni PPM	P	Pb PPM	Sb PPM	Sn PPM	Sr PPM	Ti %	V PPM	W PPM	Zn PPM
LW-12	2	0.9	0.9	7	18	791	2	0.34	1	4	14	28	1.74	2	0.32	26	0.1	1369	12	0.03	8	0.011	180	3	36	8	0.01	5	4	1	30
LW-13	2	0.4	0.8	8	7	238	2	0.18	1	5	33	44	2.13	2	0.29	53	0.09	1008	10	0.04	11	0.019	161	3	20	17	0.01	5	4	1	19
LW-13D	2	4.2	2.1	43	16	455	4	19.48	1	3	21	108	1.31	2	1.36	29	0.21	334	9	0.29	19	0.02	90	3	639	8	0.04	5	85	1	115
LW-14	2	1.5	1.04	4	8	157	2	0.15	1	3	18	30	1.65	2	0.56	47	0.09	307	9	0.09	7	0.019	223	2	27	12	0.01	5	5	1	22
LW-15	3	1.5	0.6	8	7	112	2	0.5	1	5	11	27	2.55	2	0.17	60	0.08	596	6	0.04	6	0.017	273	2	28	18	0.01	5	6	1	40
LW-16	46	13.7	0.39	30	4	256	6	0.12	1	7	38	402	5.92	2	0.15	19	0.05	334	1202	0.02	14	0.009	4818	67	18	5	0.01	13	119	13	42
LW-17	2	0.6	0.43	9	5	201	2	0.21	1	2	7	88	1.14	2	0.07	48	0.12	1290	15	0.03	5	0.011	885	2	26	21	0.01	5	11	7	19
LW-18	2	0.1	0.62	7	9	68	2	0.41	1	2	21	34	1.58	2	0.25	31	0.04	246	16	0.11	8	0.008	66	2	7	12	0.01	5	3	1	14
LW-19	2	0.1	0.45	5	2	42	2	0.4	1	2	12	11	1.31	2	0.11	33	0.03	142	3	0.06	7	0.011	25	2	6	13	0.01	5	3	1	12
LW-20	2	0.1	0.68	4	7	91	2	0.15	1	4	22	32	2	2	0.21	59	0.06	381	4	0.07	8	0.018	27	2	18	22	0.01	5	6	1	27
LW-21	2	0.1	0.48	7	4	140	2	0.22	1	4	12	15	1.76	2	0.12	54	0.09	606	4	0.04	5	0.025	82	2	19	49	0.01	5	5	1	28
LW-22	2	0.1	0.75	7	7	44	2	0.18	1	3	18	27	1.65	2	0.28	33	0.05	244	9	0.12	8	0.013	62	2	11	36	0.01	5	4	1	24
LW-23	2	0.3	0.32	4	6	11	2	0.14	1	2	10	11	1.17	2	0.08	29	0.03	118	6	0.04	5	0.005	48	2	4	31	0.01	5	4	1	19
LW-24	2	0.1	0.35	2	3	24	2	0.23	1	2	18	30	1.33	2	0.17	25	0.03	354	8	0.09	5	0.001	44	2	8	41	0.01	5	2	1	22
LW-25	2	0.1	1.55	5	2	62	2	1.47	1	24	144	69	3.54	2	0.14	2	0.88	732	1	0.13	43	0.035	6	2	28	2	0.14	5	52	1	70
LW-26	2	0.2	0.89	2	26	39	2	0.15	1	3	19	37	1.2	2	0.34	34	0.08	366	5	0.02	7	0.002	160	2	13	33	0.01	5	5	1	13
LW-27	2	0.4	0.05	9	2	10	2	0.09	1	6	32	26	2.52	2	0.01	2	0.02	232	5	0.01	17	0.002	193	5	3	2	0.01	5	6	2	6
LW-27D	2	4.1	2.46	44	13	512	2	18.41	1	3	19	97	1.33	2	1.74	35	0.2	362	9	0.36	17	0.021	94	5	726	10	0.05	5	76	1	112
LW-28	2	0.2	0.44	7	9	52	2	0.2	1	3	16	17	1.42	2	0.14	33	0.06	236	2	0.04	9	0.008	32	3	10	33	0.01	5	5	1	11
LW-29	2	0.2	2.63	4	4	142	2	1.2	1	43	14	186	6.99	2	0.18	5	1.16	1673	12	0.06	23	0.067	12	2	36	2	0.12	5	137	1	108
LW-30	2	1.9	0.78	5	19	21	2	0.3	1	4	32	59	1.81	2	0.32	32	0.08	409	93	0.03	10	0.002	679	2	16	24	0.01	5	13	2	20
LW-31	2	0.7	0.91	7	15	102	2	0.3	1	3	14	16	1.51	2	0.15	33	0.16	2324	210	0.02	8	0.002	2140	2	17	38	0.01	5	14	2	21
LW-32	2	0.5	0.41	7	5	20	2	0.28	1	3	21	41	1.47	2	0.14	33	0.05	232	10	0.08	7	0.002	94	2	11	28	0.01	5	3	1	14
LW-33	35	4.4	0.11	4	3	22	2	0.06	1	6	31	23	2.65	2	0.05	6	0.02	367	33	0.01	15	0.005	284	2	8	2	0.01	5	6	1	6
LW-34	2	0.2	0.61	3	11	17	2	0.37	1	2	20	28	1.31	2	0.13	31	0.09	240	3	0.08	6	0.001	33	2	13	41	0.01	5	3	1	16
DETECTION LIMIT	3	0.2	0.01	2	2	2	2	0.01	0.2	1	1	1	0.01	1	0.01	2	0.01	1	1	0.01	1	0.001	2	2	1	2	0.01	5	2	1	1

Starters

0.500 GRAMS OF PULP IS DIGESTED WITH HYDROCHLORIC AND NITRIC ACID AT 95 DEGREE CENTIGRADE FOR ONE HOUR.
DIGEST IS PARTIAL FOR B Ba Ca Cr Fe La Mg Mn Sr Ti AND W
DIGEST IS LIMITED FOR Al K AND Na

[redacted]

American Assay Laboratories

1500 GLENDALE AVE. SPARKS
NEVADA 89431
TELEPHONE (702) 356 0606
FACSIMILE (702) 356 1413

ELEMENT / SAMPLES	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm
LW-35	2	0.6	0.75	4	21	50	2	0.11	1	3	17	26	1.49	2	0.35	15	0.06	3215	9	0.02	9	0.002	329	10	23	25	0.01	6	5	1	20
LW-36	2	0.4	0.64	3	37	26	3	0.44	1	3	20	33	1.13	2	0.29	30	0.06	100	2	0.01	6	0.003	54	2	14	39	0.01	5	6	1	10
LW-37	2	0.1	0.38	2	8	88	2	0.17	1	4	16	12	1.44	2	0.11	43	0.02	489	2	0.06	9	0.015	34	3	16	31	0.01	5	3	1	12
LW-38	2	0.1	0.38	5	4	24	2	0.15	1	2	19	24	1.28	2	0.11	28	0.04	277	2	0.07	5	0.003	37	2	9	35	0.01	5	3	1	13
LW-39	2	0.2	0.52	4	7	17	2	0.37	1	2	12	8	1.28	2	0.08	24	0.11	644	2	0.05	9	0.001	48	2	11	46	0.01	5	4	1	30
RB-7	2	0.2	1.39	6	3	129	2	3.26	1	10	31	58	2.87	2	0.16	58	0.44	609	1	0.03	18	0.155	15	2	88	14	0.05	5	41	1	61
RB-8	2	0.2	0.37	3	4	75	2	0.11	1	6	20	30	2.26	2	0.21	14	0.06	437	2	0.03	11	0.02	9	2	19	5	0.01	5	11	1	17
RB-9	2	0.2	2.53	6	2	72	2	4.18	1	28	48	97	5.11	2	0.11	8	1.22	879	1	0.05	66	0.074	13	3	58	3	0.06	5	76	3	100
RB-10	2	0.3	1.18	13	10	109	2	0.32	1	16	21	153	3.89	2	0.23	24	0.29	687	3	0.03	13	0.043	16	3	21	14	0.01	5	27	2	58
RB-11	2	0.5	1.19	11	9	49	21	0.42	1	13	20	1259	13.64	2	0.25	10	0.15	421	10	0.01	8	0.04	21	2	73	12	0.01	5	44	2	50
RB-11D	2	4.8	2.18	45	11	418	3	20.94	1	5	21	112	1.42	2	1.46	30	0.22	358	10	0.3	17	0.025	98	6	657	9	0.05	5	92	1	123
STANDARD C	6	7.4	1.9	38	34	178	20	0.48	18.8	32	59	62	3.95	2	0.15	39	0.88	1059	19	0.07	70	0.092	42	14	53	40	0.09	17	57	11	132
RB-12	2	0.1	0.5	2	7	21	2	0.12	1	4	22	38	2.52	2	0.13	6	0.14	368	2	0.03	6	0.004	5	2	7	8	0.01	5	3	3	13
RB-13	3	2.3	1.68	2	8	59	173	0.78	1	12	14	899	15.29	2	0.11	18	0.38	674	4	0.02	9	0.024	187	2	42	9	0.01	26	44	40	58
RB-14	2	0.2	1.12	4	9	272	7	0.26	1	6	17	399	5.16	2	0.14	10	0.28	943	3	0.02	7	0.002	30	2	20	7	0.01	5	4	3	68
RB-15	2	0.5	1.13	7	5	1959	15	0.3	1	7	15	1424	4.63	2	0.13	4	0.22	1265	4	0.01	8	0.004	235	3	51	3	0.01	5	9	3	142
RB-16	2	1.4	1.66	8	5	342	65	0.29	1	8	24	2439	7.87	3	0.12	2	0.46	897	5	0.01	8	0.004	40	3	23	3	0.01	5	9	12	166
RB-17	2	0.1	3.07	10	8	1142	9	0.41	1	19	432	606	13.93	2	0.19	13	1.43	1517	2	0.01	111	0.037	20	2	43	3	0.02	28	62	12	134
RB-18	2	0.2	2.28	3	2	84	30	0.35	1	13	24	2348	8.52	2	0.24	17	0.83	819	1	0.01	18	0.079	2	2	13	6	0.01	17	22	8	54
RB-19	2	0.3	1.59	16	14	67	10	0.13	1	11	25	1041	14.05	2	0.1	19	0.44	655	3	0.01	9	0.032	14	2	23	5	0.01	5	18	53	32
RB-20	2	0.6	2.22	2	22	48	25	0.2	1	14	41	1588	20.92	2	0.09	115	0.68	1113	2	0.01	11	0.042	7	2	19	2	0.02	10	50	90	39
RB-21	2	0.1	2.68	2	2	83	12	0.23	1	11	24	582	18.43	2	0.15	39	0.95	1135	2	0.01	12	0.031	9	2	19	5	0.01	5	27	106	35
RB-21D	2	4	2.24	44	15	270	4	17.72	1	2	21	113	1.58	2	1.62	32	0.22	359	10	0.33	19	0.021	94	7	681	9	0.05	5	83	2	102
RB-22	2	0.2	1.32	10	5	66	24	0.18	1	11	15	2587	10.23	2	0.18	14	0.25	683	2	0.01	12	0.068	8	3	11	5	0.01	15	16	17	33
RB-23	2	0.2	0.85	61	2	72	13	0.24	1	32	20	466	17.19	2	0.1	7	0.07	1269	9	0.01	6	0.024	5	2	59	4	0.01	6	31	87	28
DETECTION LIMIT	3	0.2	0.01	2	2	2	2	0.01	0.2	1	1	1	0.01	1	0.01	2	0.01	1	1	0.01	1	0.001	2	2	1	2	0.01	5	2	1	1

0.500 GRAMS OF PULP IS DIGESTED WITH HYDROCHLORIC AND NITRIC ACID AT 95 DEGREE CENTIGRADE FOR ONE HOUR.
DIGEST IS PARTIAL FOR B Ba Ca Cr Fe La Mg Mn Sr Ti AND W
DIGEST IS LIMITED FOR Al K AND Na

American Assay Laboratories

PRELIMINARY REPORT

West Side
Rich Hill - Stanton Cove
Yavapai Co

REPORT : SP 011822

Sample	Au ppb	Au(R) ppb	
LW-12	462		
LW-13	224		
LW-13D	313		
LW-14	589	609	0.017 opt
LW-15	2995	3115	0.088 opt
LW-16	31,087 ~~DTF~~	33,723	0.914 opt
LW-17	1518		0.045 opt
LW-18	324		
LW-19	49		
LW-20	120		
LW-21	158		
LW-22	148		
LW-23	70		
LW-24	45	42	
LW-25	7		
LW-26	509	556	
LW-27	836		0.025 opt
LW-27D	327		
LW-28	597		
LW-29	8		
LW-30	1496	1633	0.044 opt.
LW-31	216		
LW-32	700		0.021 opt
LW-33	3682 ~~DTF~~	3467	0.108 opt
LW-34	249		

Please refer to the cover sheet for further analysis details

PRELIMINARY REPORT

REPORT : SP 011822

Sample	Au ppb	Au(R) ppb	
LW-35	1297		0.038 opt
LW-36	920		0.027 opt
LW-37	25	24	
LW-38	98		
LW-39	13		
RB-7	5		
RB-8	56		
RB-9	<5		
RB-10	20		
RB-11	308	324	
RB-11D	328		
RB-12	8		
RB-13	4743 ~~DTF~~	5255	0.140 ~~0.135~~ opt
RB-14	41		
RB-15	135		
RB-16	1141		0.034 opt
RB-17	750		0.022 opt
RB-18	72		
RB-19	137		
RB-20	4845	4697	0.143 opt
RB-21	77	65	
RB-21D	265		
RB-22	33	33	
RB-23	25 ~~DTF~~	41	

Please refer to the cover sheet for further analysis details.

American Assay Laboratories Inc.

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(702) 738-2594

FACSIMILE COMMUNICATION

TO: Asarco Inc.

FROM: AAL

SUBJECT: DTF results

AAL JOB CODE: SP00 11822

PROJECT GEOLOGIST: J. D. Sell

REFERENCE PO#: Recon/ Yavapai

SAMPLE NUMBER	Au	Au(R)
LW: 16	31087	33733
33	3682	3467
RB: 13	4743	5255
23	28	41

AUTHORIZED BY: Susan Fairclotch DATE 6/10/91 TIME

ASARCO [illegible]

JUN 1 0 1991

SW Exploration

TOTAL P.01

 JDS

PRELIMINARY REPORT

RENO: 1500 Glendale Ave, SPARKS 89431
P.O. Box 71060, RENO 89570
Ph (702)356 0606 Fax 3561413

ASARCO, INC.

REPORT : SP 011822 2 Page(s) Date : 06/07/91

Client reference : LW-12/RB-2 Project : RECON/YAVAPAI

Cost code :

Copies to : MARK MILLER (I)
J.D. SELL (RESULTS)

ASARCO Incorporated
JUN 7 1991
SW Exploration

Samples : Type Preparation code
Received : 06/04/91

Analysis	Code	Quality Parameter	Detection	Units
Au	FA30	Acc. 15 %	5	ppb
Au(R)	FA30	Acc. 15 %	5	ppb

Comments :

DTF=DATA TO FOLLOW

LW - West Side Rich Hill, Yavapai Co AZ
RB - Red Bluff, Yavapai Co. AZ

Signatory : Jorge Ugarte