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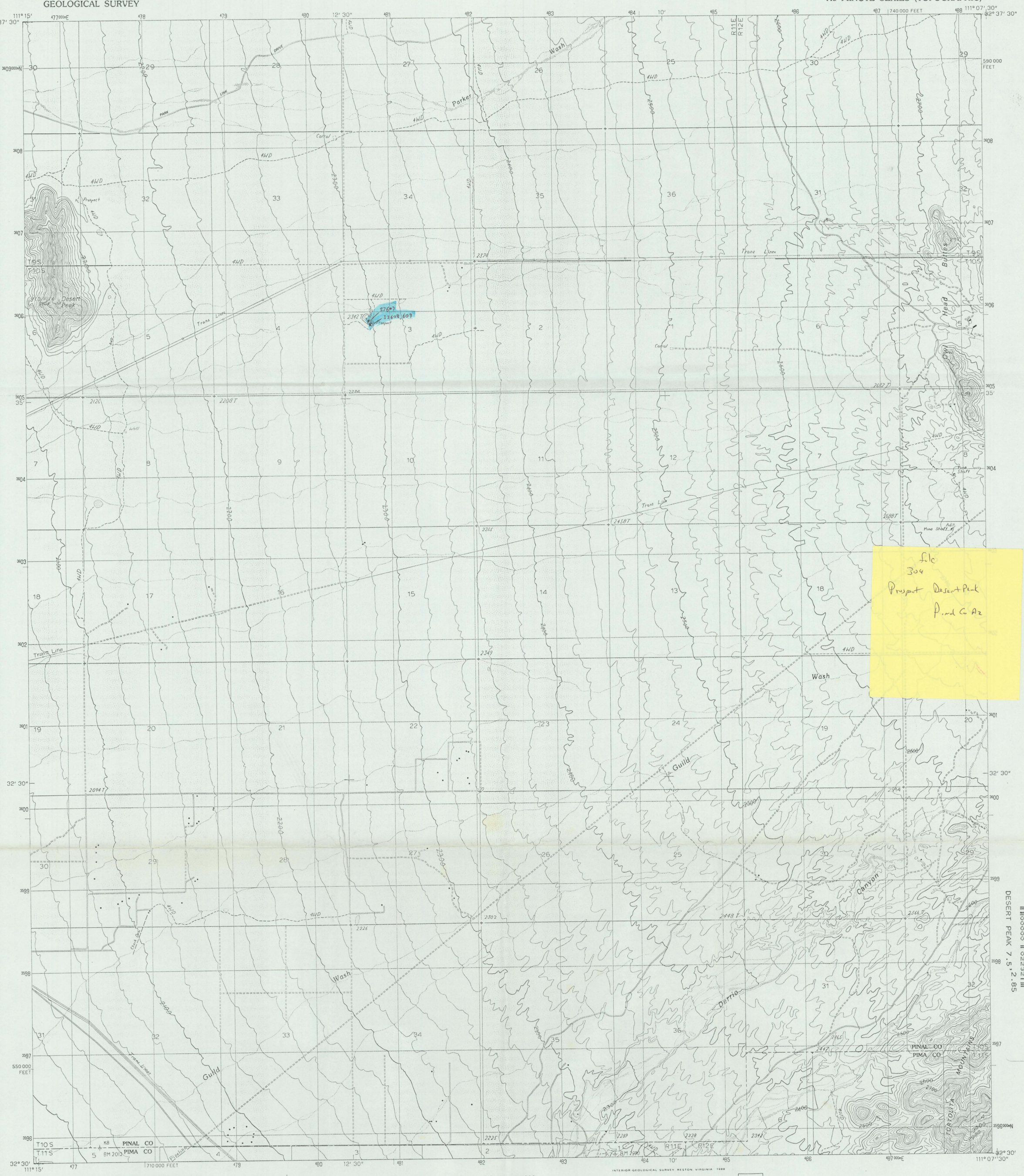
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DESERT PEAK QUADRANGLE
ARIZONA
7.5 MINUTE SERIES (TOPOGRAPHIC)



file
304
Prospect Desert Peak
Pinal Co Az

PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY
CONTROL BY ..... USGS, NOS/NOAA
COMPILED FROM AERIAL PHOTOGRAPHS TAKEN 1958
FIELD CHECKED 1959
LIMITED REVISION FROM AERIAL PHOTOGRAPHS TAKEN 1982
FIELD CHECKED ..... 1985. MAP EDITED 1988
PROJECTION ..... TRANSVERSE MERCATOR
GRID: 1000-METER UNIVERSAL TRANSVERSE MERCATOR ..... ZONE 12
10,000-FOOT STATE GRID TICKS ..... ARIZONA, CENTRAL ZONE
UTM GRID DECLINATION ..... 0°06' WEST
1988 MAGNETIC NORTH DECLINATION ..... 12° EAST
VERTICAL DATUM ..... NATIONAL GEODETIC VERTICAL DATUM OF 1929
HORIZONTAL DATUM ..... 1927 NORTH AMERICAN DATUM

To place on the predicted North American Datum of 1983, move the projection lines as shown by dashed corner ticks (4 meters south and 62 meters east)

There may be private inholdings within the boundaries of any Federal and State Reservations shown on this map

No distinction made between hoses, barns, and othjer buildings Public Land Survey System is shown as published in 1959 and verified or supplemented in 1985

NORTH

PROVISIONAL MAP
Produced from original manuscript drawings. Information shown as of date of field check.

SCALE 1:24 000

KILOMETERS 1 .5 0 1 2
METERS 1000 0 1000 2000
MILES 1 .5 0 1
FEET 1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10 000

CONTOUR INTERVAL 20 FEET

To convert meters to feet multiply by 3.2808
To convert feet to meters multiply by .3048

Samp 33607-609

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225
OR RESTON, VIRGINIA 22092

INTERIOR-GEOLOGICAL SURVEY, RESTON, VIRGINIA 1989

ARIZONA

QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

1 Picacho Pass
2 Durham Hills
3 Chiel Butte
4 Red Rock
5 Tortolita Mountains
6 West of Marana
7 Marana
8 Rucias Canyon

ADJOINING 7.5' QUADRANGLE NAMES

Samp 33607-609

ROAD LEGEND

Improved Road
Unimproved Road
Trail
Interstate Route U.S. Route State Route

DESERT PEAK, ARIZONA

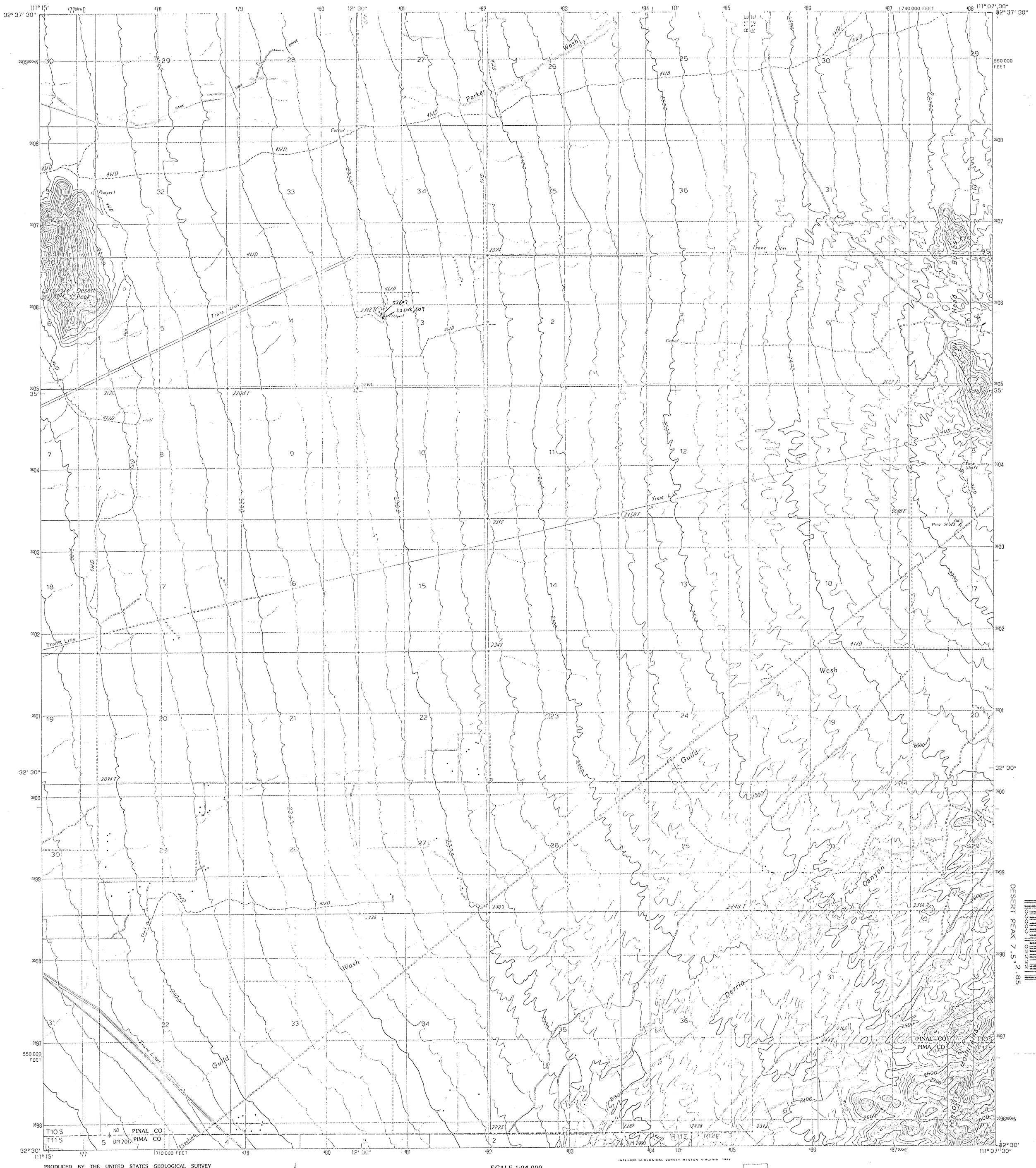
PROVISIONAL EDITION 1988

32111-E2-TF-024

Tucson Map and Pidy Center
DESERT PEAK 7.5'2.85
000000 022232

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DESERT PEAK QUADRANGLE
ARIZONA
7.5 MINUTE SERIES (TOPOGRAPHIC)



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Public Land Survey System is shown as published in 1959 and verified or supplemented in 1985

NORTH

PROVISIONAL MAP
Produced from original manuscript drawings. Information shown as of date of field check.

SCALE 1:24 000

KILOMETERS 1 .5 0 1 2
METERS 1000 0 1000 2000
MILES 1 .5 0 1
FEET 1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10 000

CONTOUR INTERVAL 20 FEET

To convert meters to feet multiply by 3.2808
To convert feet to meters multiply by .3048

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INTERIOR GEOLOGICAL SURVEY, RESTON, VIRGINIA 1988

ARIZONA

QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

1 Picacho Pass
2 Durham Hills
3 Chico Butte
4 Red Rock
5 Tortolita Mountains
6 West of Marana
7 Marana
8 Rincon Canyon

ADJOINING 7.5' QUADRANGLE NAMES

ROAD LEGEND

Improved Road
Unimproved Road
Trail

Interstate Route U.S. Route State Route

DESERT PEAK, ARIZONA

PROVISIONAL EDITION 1988

32111-E2-TF-024

Samps 33607-609

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Tucson Map and Map Center
DESERT PEAK 7.5' 2.85
10000000 022332

cc: MMG
em
NB

Fax: (602) 622-0813

Jacobs Assay Office
Registered Assayers, Estab. 1880

Ph. (602) 622-0813
Ph. (602) 622-3845

1435 S. 10th Ave. Tucson, AZ 85713

Certificate No camboo8 08-18 1993

Sample Submitted By Mr. Cambior Project 304

SAMPLE MARKED	GOLD OZ PER TON	SILVER OZ PER TON	COPPER %	LEAD %	ZINC %	MO ppm Per cent Wet Assay	Per cent Wet Assay
#33607 prospect E of Desert Peak	— —	$— —	0.01			3.0	
33608 2 mi E of Desert Peak 7.5 min	— —	— —	0.01	— —	— —	3.0	
33609 Pinal Co Desert Peak	— —	— —	6.31	— —	— —	39.0	
33610	— —	— —	2.29	— —	— —	76.8	
33611	— —	— —	0.03	— —	— —	0.6	
33612	TRACE	0.05	0.20	0.03	0.01	6.0	
33613	0.002	0.05	0.26	0.07	0.01	9.0	
33614	0.009	0.80	0.59	21.34	0.34	74.4	
33615	0.005	0.40	0.32	1.78	0.11	60.6	
33616	0.003	1.30	0.03	2.03	0.08	3.0	
33617	TRACE	0.95	0.01	1.12	0.04	10.2	
33618	TRACE	1.45	0.05	1.36	0.36	10.2	

Very respectfully,

REGISTERED ASSAYER CERTIFICATE NO. 1880 MICHAEL G. JACOBS

Charges $

TO: Randy Moore
FROM: Nick Barr
DATE: September 5, 1993
SUBJECT: Monthly Report - August, 1993

SUMMARY

304-SW Copper:

Desert Peak Area, Pinal County, AZ - Copper mineralization appears restricted to one 2-foot wide vein structure at the contact of fragmented volcanics and a coarse-grained sandstone unit. Outcrop exposure is very limited. No further work is anticipated.

Magma Well/Blue Copper Area, Pinal County, AZ - Assaying of Magma Well drill cuttings returned negative results. Further research on this area indicates additional drilling efforts adjacent to the Magma Well site also returned negative results. Limited field work is anticipated to further evaluate the Blue Copper area.

Burney Mine Area, Canada Del Oro, Pinal County, AZ - Limited sampling of altered metasediment/porphyry breccias over 2500 feet of strike length returned trace gold and anomalous lead, zinc, and silver. Workings reported to host high grade gold zones were inaccessible. Several showings of oxide copper mineralization are in evidence in the immediate area and will be the focus of further work.

Ord Mountains, San Bernadino County, CA - Initial sampling results were positive and suggest good potential for a 30 to 35 million ton oxide copper resource grading +.5% Cu. A strong exploration target is indicated where mineralized structures can be projected beneath pediment cover. Efforts are underway to gain additional information and determine lease terms.

305-NV Generative:

East Humboldt Range/Secret Valley, Elko County, NV - Twenty-six rock chip samples yielded weakly anomalous gold. Several sections hosting untested jasperoids are privately held and access permission will be required prior to further sampling. Additional research on this area is warranted.

Iron Blossom Mountain (Area A), Eureka County, NV - Initial sampling of altered volcanics

returned silt values up to 30 ppb and rock chips up to 220 ppb gold from an area encompassing roughly .5 square miles. Further review of this property is anticipated in September.

304 - SOUTHWEST COPPER GENERATIVE

Desert Peak Area, Pinal County, Arizona: Located in Section 3, T10S, R11E. Investigation of this copper occurrence was the result of systematic reconnaissance efforts in southern Pinal County. Reference to this site was gained from USGS Open File Map 76-764.

Outcrop exposure is restricted to one low hill measuring roughly 300 feet in a north-south direction and 100 feet east-west. The entire surrounding area is covered by alluvium. One shallow incline shaft exposes locally strong fracture and bleb chrysocolla in a 1 to 2 foot wide, moderately northwest dipping brecciated structure. Mineralization is best developed along the apparent contact of fragmental mafic volcanics and a coarse-grained well indurated, siliceous sandstone unit. Select sampling of dump material containing chrysocolla with associated calcite, quartz and barite returned 6.3% Cu. Several samples testing representative oxidized sandstone over most of the outcrop exposure returned negative results.

This mineral occurrence is probably a small ??????? remnant with mineralization related to detachment tectonics. Desert Peak, some two miles to the west and the nearest outcrop exposure ~~are~~ is composed of mylonitic intrusive rocks. Due to the restricted nature of copper mineralization and difficulty in developing an exploration target, no further work is anticipated.

Magma Well/Blue Copper Area, Pinal County, Arizona: Located in Sections 17 and 20, T8S, R12E. Reconnaissance work in this area was successful in locating the collar of a pre-1960 Magma drill hole reported to show oxide copper grades of .5 to 1% over several hundreds of feet. Drill cuttings still at the site are composed of siliceous Pinal Schist showing pervasive hematite-sericite alteration but no visible copper mineralization. Assay results of this material were negative.

A report submitted to Cambior several years ago by Joe Wilkins covering the Blue Copper/Magma Well area makes reference to a Duval drill hole approximately 200 feet deep and collared 200 feet from the Magma well site. Results of this Duval drilling in the 1960's were apparently negative. It is possible that additional information on this drilling may be available from a drilling contractor still active in the Tucson area.

Limited additional work is planned for the Blue Copper area as it

INTERNATIONAL PLASMA LABORATORY LTD.

Desert Peak Area
33607-609

CERTIFICATE OF ANALYSIS
iPL 93I0302

2036 Columbia Street
Vancouver, B.C.
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898

Cambior Exploration USA, Inc.

Out: Sep 07, 1993 Project: None Given
In : Sep 03, 1993 Shipper: Michael Gustin
PO#: Shipment: -- ID=C013500
Msg: ICP(AqR)30
Msg:

27 Samples

	0= Rock	0= Soil	0= Core	0=RC Ct	27= Pulp	0=Other
Raw Storage:	--	--	--	--	12Mon/Dis	--
Pulp Storage:	--	--	--	--	12Mon/Dis	--

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Mon=Month Dis=Discard
Rtn=Return Arc=Archive

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Ph:702/856-5189
Fx:702/856-4549

Analytical Summary

##	Code	Method	Title	Limit Low	Limit High	Units	Description		Element	##
01	721P	ICP	Ag	0.1	100	ppm	Ag ICP		Silver	01
02	711P	ICP	Cu	1	20000	ppm	Cu ICP		Copper	02
03	714P	ICP	Pb	2	20000	ppm	Pb ICP		Lead	03
04	730P	ICP	Zn	1	20000	ppm	Zn ICP		Zinc	04
05	703P	ICP	As	5	10000	ppm	As ICP	5 ppm	Arsenic	05
06	702P	ICP	Sb	5	1000	ppm	Sb ICP		Antimony	06
07	732P	ICP	Hg	3	10000	ppm	Hg ICP		Mercury	07
08	717P	ICP	Mo	1	1000	ppm	Mo ICP		Molydenum	08
09	747P	ICP	Tl	10	1000	ppm	Tl ICP	10 ppm	Thallium	09
10	705P	ICP	Bi	2	10000	ppm	Bi ICP		Bismuth	10
11	707P	ICP	Cd	0.1	10000	ppm	Cd ICP		Cadmium	11
12	710P	ICP	Co	1	10000	ppm	Co ICP		Cobalt	12
13	718P	ICP	Ni	1	10000	ppm	Ni ICP		Nickel	13
14	704P	ICP	Ba	2	10000	ppm	Ba ICP		Barium	14
15	727P	ICP	W	5	1000	ppm	W ICP		Tungsten	15
16	709P	ICP	Cr	1	10000	ppm	Cr ICP		Chromium	16
17	729P	ICP	V	2	10000	ppm	V ICP		Vanadium	17
18	716P	ICP	Mn	1	10000	ppm	Mn ICP		Manganese	18
19	713P	ICP	La	2	10000	ppm	La ICP		Lanthanum	19
20	723P	ICP	Sr	1	10000	ppm	Sr ICP		Strontium	20
21	731P	ICP	Zr	1	10000	ppm	Zr ICP		Zirconium	21
22	736P	ICP	Sc	1	10000	ppm	Sc ICP		Scandium	22
23	726P	ICP	Ti	0.01	1.00	%	Ti ICP		Titanium	23
24	701P	ICP	Al	0.01	5.00	%	Al ICP		Aluminum	24
25	708P	ICP	Ca	0.01	10.00	%	Ca ICP		Calcium	25
26	712P	ICP	Fe	0.01	5.00	%	Fe ICP		Iron	26
27	715P	ICP	Mg	0.01	10.00	%	Mg ICP		Magnesium	27
28	720P	ICP	K	0.01	10.00	%	K ICP		Potassium	28
29	722P	ICP	Na	0.01	5.00	%	Na ICP		Sodium	29
30	719P	ICP	P	0.01	5.00	%	P ICP		Phosphorus	30

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Approved

INTERNATIONAL PLASMA LABORATORY LTD

2036 Columbia Street
Vancouver, B.C.
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898

CERTIFICATE OF ANALYSIS
iPL 93I0302

Report: 93I0302 R Cambior Exploration USA, Inc. Project: None Given

Sample Name	Type	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm
33607 Desert Peak Area 324 Pinal Co. Az	Pulp	0.7	59	98	94	11	5	<3	5	<10	<2	<0.1	9	24	2182	8	47
33608	Pulp	0.8	132	157	99	21	9	<3	6	<10	<2	<0.1	7	23	2118	7	55
33609	Pulp	2.7	8.6%	160	122	35	10	<3	9	<10	<2	0.8	6	21	1553	28	90
33610	Pulp	9.8	3.2%	28	99	27	<5	6	306	<10	<2	<0.1	13	29	209	18	53
33611	Pulp	0.2	343	19	105	21	<5	<3	14	<10	<2	<0.1	21	61	215	7	90
33612	Pulp	2.0	2632	250	430	<5	<5	<3	21	<10	6	<0.1	62	30	96	<5	43
33613	Pulp	7.4	3035	772	217	5	<5	<3	29	<10	62	<0.1	28	17	49	7	33
33614	Pulp	17.5	7526	2.6%	4889	64	136	<3	317	<10	76	2.7	37	10	28	24	16
33615	Pulp	10.5	3610	18352	1893	286	13	<3	266	<10	128	0.4	10	16	16	14	32
33616	Pulp	47.5	392	2.5%	1804	71	12	<3	10	<10	<2	12.0	13	17	54	<5	17
33617	Pulp	33.5	113	12164	977	47	6	<3	6	<10	<2	6.0	15	16	38	6	16
33618	Pulp	96.5	646	14939	5254	83	7	<3	12	<10	15	214.8	26	42	9	31	35
33619	Pulp	3.1	7921	48	92	<5	<5	<3	271	<10	<2	0.4	11	18	65	6	46
33620	Pulp	2.8	928	29	101	<5	<5	<3	168	<10	<2	<0.1	12	12	112	10	23
33621	Pulp	0.4	1255	13	61	<5	<5	<3	20	<10	<2	<0.1	9	13	76	<5	32
33622	Pulp	1.0	2258	15	96	<5	<5	<3	51	<10	<2	<0.1	11	12	100	7	23
33623	Pulp	1.3	1397	23	65	<5	<5	<3	12	<10	<2	<0.1	9	12	58	5	24
33624	Pulp	0.7	784	16	77	<5	<5	<3	60	<10	<2	<0.1	14	10	140	18	17
33625	Pulp	3.0	7215	41	40	7	5	<3	852	<10	<2	<0.1	7	18	38	9	44
33626	Pulp	15.3	7.1%	31	92	11	25	<3	0.6%	<10	<2	2.3	7	10	44	19	48
33627	Pulp	3.0	3292	21	33	<5	9	<3	0.2%	<10	<2	0.7	5	5	29	<5	23
33628	Pulp	1.3	762	12	15	<5	5	<3	0.1%	<10	<2	<0.1	2	10	38	<5	26
33629	Pulp	5.0	7261	24	37	5	10	<3	0.3%	<10	<2	0.1	3	4	65	7	23
33630	Pulp	2.0	4258	11	158	<5	<5	<3	454	<10	<2	<0.1	24	33	96	6	55
33631	Pulp	2.1	10016	15	113	<5	<5	<3	767	<10	<2	0.8	14	13	70	9	24
33632	Pulp	4.4	10359	21	27	8	20	<3	0.5%	<10	<2	2.0	3	<1	28	8	22
33633	Pulp	0.3	16562	13	87	<5	<5	<3	459	<10	<2	0.6	16	32	40	5	56
Minimum Detection		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1
Maximum Detection		100.0	20000	20000	20000	10000	1000	10000	1000	1000	10000	10000.0	10000	10000	10000	1000	10000
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ReC=ReCheck ins=Insufficient Sample m=Est/1000 %=Est % Max=No Est

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Report: 93I0302 R Cambior Exploration USA, Inc. Project: None Given

Sample Name	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
33607	58	398	20	74	7	4	0.09	0.73	0.47	2.92	0.12	0.32	0.04	0.19
33608	61	296	17	71	8	3	0.06	0.23	0.68	2.98	0.04	0.15	0.04	0.10
33609	46	243	8	288	5	2	0.03	0.41	0.25	2.43	0.06	0.12	0.02	0.04
33610	48	225	27	66	2	4	0.08	0.98	0.24	3.97	0.63	0.49	0.06	0.07
33611	64	959	27	40	4	4	0.03	1.58	1.09	5.1%	1.35	0.26	0.03	0.11
33612	64	3112	23	16	4	8	0.05	3.60	0.14	9.7%	1.81	0.25	0.03	0.06
33613	31	1446	13	13	3	3	0.02	1.81	0.05	5.3%	0.78	0.14	0.02	0.03
33614	35	1.0%	16	44	1	1	0.01	1.67	0.03	9.2%	0.05	0.16	0.04	0.04
33615	92	859	5	11	3	1	0.02	0.94	0.06	12%	0.05	0.09	0.02	0.11
33616	15	2889	27	65	3	3	0.06	1.27	1.12	5.5%	1.32	0.63	0.03	0.22
33617	12	1229	20	80	2	2	0.02	1.11	0.94	4.18	0.96	0.54	0.03	0.73
33618	18	299	21	8	2	2	<0.01	0.92	0.22	5.2%	0.47	0.35	0.02	0.16
33619	30	328	14	26	1	2	0.05	1.04	0.20	3.30	0.56	0.27	0.06	0.04
33620	53	458	16	42	1	3	0.13	1.09	0.66	2.98	0.84	0.45	0.07	0.06
33621	42	381	18	36	1	2	0.03	1.03	0.46	2.80	0.81	0.14	0.05	0.07
33622	51	464	16	36	1	3	0.12	1.04	0.35	2.97	0.85	0.35	0.05	0.06
33623	37	415	25	22	1	2	0.01	0.97	1.09	2.74	0.73	0.15	0.04	0.06
33624	55	401	16	47	2	3	0.16	0.93	0.40	2.73	0.75	0.57	0.06	0.05
33625	15	194	18	11	1	<1	<0.01	1.02	0.17	3.16	0.28	0.35	0.03	0.02
33626	<2	139	7	20	<1	<1	<0.01	0.33	0.26	3.99	0.04	0.04	0.02	0.01
33627	<2	128	30	19	2	<1	0.04	0.46	0.16	2.09	0.17	0.10	0.03	0.03
33628	<2	109	14	7	2	<1	0.02	0.21	0.09	1.78	0.07	0.09	0.03	0.01
33629	<2	94	22	11	2	<1	0.01	0.57	0.07	2.65	0.05	0.28	0.04	0.01
33630	120	696	21	74	3	9	0.21	1.55	0.82	5.3%	1.34	0.44	0.07	0.13
33631	47	501	21	24	2	3	0.05	1.36	0.42	3.87	0.92	0.24	0.03	0.12
33632	<2	101	32	17	3	<1	0.04	0.41	0.33	1.61	0.08	0.11	0.03	0.03
33633	112	323	31	16	3	8	0.16	1.53	0.47	5.2%	1.10	0.21	0.05	0.10
Minimum Detection	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Maximum Detection	10000	10000	10000	10000	10000	10000	1.00	5.00	10.00	5.00	10.00	10.00	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ReC=ReCheck ins=Insufficient Sample m=Est/1000 %=Est % Max=No Est

CAMBIOR USA, INC. NO. 33607

ROCK: [X] Date: 8/9

SOIL: [ ] State: Az

SED.: [ ] County: Pinal

Project: Desert ~~Peak~~ Peak

DRILL HOLE NO. _____ FROM _____ TO _____

Loc.: T 10 N; R 11 E/W; NW ¼; S 3

Quad: Desert Peak Scale 7.5

RX: Dump/Tailings Outcrop/Float Fresh/Weathered

Outcrop Location: Represent grab across outcrop knoll ≈ 200'

NO. _____

Sample Description: _____ Rock Type: _____

Rock Mod: _____ Mineral: _____

Oxides: _____ Alteration: _____

Structure: _____ Spl. Width: _____

silic – hem – cr gr ss, weak bedding, tr frac CaCos + Qtz

CAMBIOR USA, INC. NO. 33608

ROCK: [X] Date: 8/9

SOIL: [ ] State: Az

SED.: [ ] County: Pinal

Project: Desert Peak

DRILL HOLE NO. _____ FROM _____ TO _____

Loc.: T 10 N (S); R 11 (E) (W); NW ¼; S 3

Quad: Desert Peak Scale 7.5

RX: Dump/Tailings Outcrop/Float Fresh/Weathered

Outcrop Location: grab Prospect dump

S side local Knoll NO. _____

Sample Description: _____ Rock Type: _____

Rock Mod: _____ Mineral: _____

Oxides: _____ Alteration: _____

Structure: _____ Spl. Width: _____

Same Rx as # 607

X

CAMBIOR USA, INC. NO. 33609

ROCK: [X] Date: 8/9

SOIL: [ ] State: Az

SED.: [ ] County: Pinal

Project: Desert Peak

DRILL HOLE NO. _____ FROM _____ TO _____

Loc.: T 10 N; R 11 E; NW ¼; S 3

Quad: Desert Peak Scale 7.5

RX: Select Dump/Tailings Outcrop/Float Fresh/Weathered

Outcrop Location: Select prospect

represents 1' vein NO. _____

Sample Description: _____ Rock Type: _____

Rock Mod: _____ Mineral: _____

Oxides: _____ Alteration: _____

Structure: _____ Spl. Width: _____

SS + volc, some Bx silicif, frac-bleb

crysocolla, barite, $CaCO_3$,