

RESURVEY & RETRACEMENT

S. & E. Bds.

T. 18 N. R. 6 E.

Book G.

BOOK 1420

4-671

1420

FIELD NOTES

GENERAL LAND OFFICE.

No. 1420

Notes copied by Cmt 5/29/04

Compared by G.M. G. & Cmt 5/30/04

accounts checked by G.M. G.
Cmt 6/29/04

No. 1420

BOOK 1
1420

Field Notes
of the survey of the
South and East Boundaries

of
Tp. 18 N. of Range 6 E.
of the

Gila and Salt River Base and Meridian
in the
Territory of Arizona
as surveyed by.

W. Oscar Secor.

U.S. Deputy Surveyor.
Under his contract No 102

Dated June 30, 1902.

Survey commenced Oct. 14, 1902.
Survey completed Jan 2, 1904

✓

Names and Duties of Assistants.

A. G. Johnson	Chairman
J. M. Lockwood	Chairman
Joel Anderson	Chairman
C. J. Schwartz	Asymann
Norman Coote	Flagman
Hubert Harpham	Asymann
H. K. Ward	Flagman

BOOK 1420

Township 18 N Range 6 E

County,

NORTH

6	5	4	3	2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	10010	10011	10012	10013	10014	10015	10016	10017	10018	10019	10020	10021	10022	10023	10024	10025	10026	10027	10028	10029	10030	10031	10032	10033	10034	10035	10036	10037	10038	10039	10040	10041	10042	10043	10044	10045	10046	10047	10048	10049	10050	10051	10052	10053	10054	10055	10056	10057	10058	10059	10060	10061	10062	10063	10064	10065	10066	10067	10068	10069	10070	10071	10072	10073	10074	10075	10076	10077	10078	10079	10080	10081	10082	10083	10084	10085	10086	10087	10088	10089	10090	10091	10092	10093	10094	10095	10096	10097	10098	10099	100100	100101	100102	100103	100104	100105	100106	100107	100108	100109	100110	100111	100112	100113	100114	100115	100116	100117	100118	100119	100120	100121	100122	100123	100124	100125	100126	100127	100128	100129	100130	100131	100132	100133	100134	100135	100136	100137	100138	100139	100140	100141	100142	100143	1001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sec 019 N R 6 E.

For preliminary oaths, prior to Jan. 1st
904. See subs. T.19N R.6E; after Jan. 1st, 1904,
see subs. T.18N. R.6E.

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S. Bidg. T. 18 N. R. 6 E.

BOOK 1420

Survey commenced Oct. 14, 1902, and
executed with a Buff ^{and} Berger transit
^{no. 672} with Sargmuller Solar attachment, the
horizontal limb of the transit having
two double verniers placed opposite to
each other ^{and} reading to $30''$ of arc.

The instrument was examined ^{and}
approved by the Surveyor General at
Phoenix, Arizona.

At my camp, which is near the cor. of
secs. 7, 8, 17 ^{and} 18, Tp. 17 N. R. 6 E. in lat. $34^{\circ} 52'$ N., at 5.51 P.M. I observe Polaris at
eastern elongation, in accordance with
instructions in the Manual, ^{and} mark the
line thus determined by a cross on a
stone set in the ground 5 chs. N. of
my station.

Oct. 14, 1902

Oct. 15, 1902: At 7-30 a.m. I lay off the
azimuth

S. Bidy. S.p. 18 N. R. 6 E.

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of Polaris, $1^{\circ} 29'$ to the west, and mark the true meridian thus determined, by cutting a mark on a stone firmly set in the ground, west of the point established last night; the magnetic bearing of said true meridian is N.

$14^{\circ} 45' W.$, which reduced by the table on page 100 of the manual, gives the mean magnetic declination N. $14^{\circ} 43' E.$ At 8 a.m. I.m.t. I set off $34^{\circ} 52' N.$ on the lat. arc; $8^{\circ} 17' S.$ on the decl. arc, and determine a true meridian with the solar for the purpose of testing my solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m.

hours with a true meridian determined as determined by the solar falls, 25 inches W. of the point by observations on Polaris. I find the meridian determined by observation on Polaris.

3 p.m. I.m.t. I set off $8^{\circ} 24' S.$ on the decl. arc; $34^{\circ} 52' N.$ on the lat. arc;

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and determining a true meridian with
the solar, which coincides with the
meridian established last night.

I therefore conclude the adjustments
of my instrument are satisfactory.

Oct. 16. at 8 a.m. l.m.t. I set off $8^{\circ} 39' S.$
on the decl. arc; $34^{\circ} 54' N.$ on the lat. arc;
and determine a true meridian ^{with the solar} at the cor.
of Tps. 17 ^{and} 18 N. Rs. 5 ^{and} 6 E. previously
described by me; thence I run

E. on S. bdy. sec. 31 T. 18 N. R. 6 E.

Over mountainous land, thro.

cross your timber.

in 40.01
li sec. cor., as described
by the Surveyor General.

The course ^{and} length of this
half mile is E. 40.01 chs.

80.00
The cor. of secs. 31, 32, 5 ^{and} 6, which
is a sandstone $12 \times 6 \times 2$ ins. lying

S. Bdry. Tp. 18 N. R. 6 E.

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on a small m'd. of stone,

I therefore re-establish as follows:

Set a sandstone $18 \times 12 \times 5$ ins. in
a m'd. of stone 4 ft. base ^{and} 2 ft.
high for cor. of sec. 5. 6. 31 + 32,
marked with 1 notch on W. ^{and} 5
notches on E. edges from which

a pinon 7 ins. diam. bears S. 47° W.
50 lks. dist. marked T. 17 N R. 6 E. S. 6 B. T.

Repaired a m'd. of stone 2 ft. high
by 3 ft. base W. of cor. No other
tree in distance. Pits impracticable
land mountainous 80 chs.

Timber year ^{and} pinon.

Soil ^{4th} rate.

E. on S. bdy. sec. 32.

Ascending abruptly sandstone butte.

Top of butte, 300 ft. high, descend.

Bottom of gulch, coarse S. ascend
precipitous sandstone butte.

Top of butte, descend abruptly.

An undersized stone lying loose
on the ground marked $\frac{1}{4}$, which
I destroy ^{and re-}establish as follows:

Set a sandstone $2\frac{1}{4} \times 10 \times 6$ ins. in a
md. of stone 3 ft. base, $2\frac{1}{2}$ ft. high
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face
from which

a yaw 10 ins. diam. bears N. 36° W.

40 lbs. dist. marked $\frac{1}{4}$ S. 32 B.T.

a yaw 9 ins. diam. bears S. 9° W. 34 lbs.
dist. marked $\frac{1}{4}$ S. 5 B.T.

Descend.

52.15 Thompson's road bears N.E. & S. W.

80.00

The cor. of secs. 4, 5, 32^{and} 33 which
is a stone 13 x 6 x 2 ins, lying in a bush.
I re-establish as follows:

Set a sandstone 18 x 12 x 6 in a md. of
stone, four ft. base, 2 1/2 ft. high for
cor. of secs. 4, 5, 32^{and} 33 with 2 notches
on W. ^{and} 4 notches on E. edges from which
a pinon 6 ins. diam. bears S. 51° 30' E. 63 ft.
dist. marked 5. 17 N. R. 6 E. S. 4 B. S.

A pinon 6 ins. diam. bears S. 32° 30' W. 104 ft.
dist. marked 5. 17 N. R. 6 E. S. 5 B. S.

A yew 5 ins. diam. bears N. 42° E. 95 ft.
dist. marked 5. 18 N. R. 6 E. S. 33 B. S.

A pinon 4 ins. diam. bears. N. 30° W. 114 ft.
dist. marked 5. 18 N. R. 6 E. S. 32 B. S.

Land mountainous 80 chs.

Dense yews + pinons 80 chs.

Soil rocky 4th rate.

E. bat. secs. 4th and 33

Descending over mountainous land through dense brush.

1.00

Thompson's road bears N.E. ^{and} S.W.

7.60

Bottom of Wilson Cañon, course S.E., ascend abruptly.

11.00

Top of bluff, bears S.E. and N.W. continue ^{to ascend.}

21.30

Top of ridge, bet. Wilson Cañon and

Oak Creek. Descend

38.63

^{as described by the Survey General}
1/4 sec. cor. bears N. 1/4 Ws. which

makes the bearing of this half mile

N. 89° 47' E.

From this cor. I am able to see a flag placed at the cor. of secs. 3, 4, 33, and 34, which bears N. 74° 23' E. to

which I run. Descending abruptly.

~~12.87~~
51.50

W. edge Oak Creek 40 lms. wide, course S.

~~13.37~~
511.00

Ascend abruptly.

~~24.37~~
63.00

Top of bluff, E. side Oak Creek Cañon

~~24.86~~
~~63.49~~

The cor. of secs. 3, 4, 33 & 34 which is across on a flat ledge of sandstone with m.d. of stone, which I renew as follows after rebuilding the m.d. of stone:

I mark a pinon 7 ins. diam. bears N. 14° E.

87 lks. dist. marked S. 18 N. R. 6 E. S. 34 B. S.

A pinon 10 ins. diam. bears N. 20° W. 59 lks.

dist. marked S. 18 N. R. 6 E. S. 33 B. S.

Pits impracticable.

Land mountainous 63.49 chs.

Dense brush 63.49 chs.

Scattering yuccas + pinons with live oak, maple, Sycamore, walnut, ash, cottonwood in Oak Creek bottom.

From the cor. last described I run
N. 86° 12' E. to a flag placed at the cor.
of secs. 2, 3, 34 ^{and} 35.

Over mountainous land, ascending.

Top of arcent, second steep slope

Bottom of rocky gulch course N. 60° W.

Second diagonally steep slope of mesa.

The $\frac{1}{4}$ sec. cor. as described by the

Surveyor General.

The cor. of secs. 2, 3, 34 ^{and} 35 which
is a malpais $16 \times 8 \times 4$ ins. in a md. of
^{stone.}
as described by the Surveyor General.

Land mountainous 79.35 chs.

Dense brush 79.35 chs.

Oct. 16, 1902

Oct. 17: At 8 a.m. f.m.t. I set off $9^{\circ}02' S.$ on the decl. arc, $34^{\circ}54' N.$ on the lat. arc; ^a to determine a true meridian with the solar at the cor. of sec.

$2, 3, 34, + 35$; thence I run
E. lat. sec. $2 \frac{1}{4}$ and 35.

Ascending steep slope of mesa.

- 26.00 Foot of bluff of mesa.
- 26.70 Top of bluff, 500 ft. high, bears N.+S.
- 37.00 Th $\frac{1}{4}$ sec. cor. bears N. 150 lks, which makes the bearing ^a length of this $\frac{1}{2}$ mile N. $87^{\circ}41'E.$, 37.05 chs.

I re-establish this cor. as follows:

Set a malpais $14 \times 14 \times 10$ ins. in a md. of ^{7/4 sec.} stone for cor. marked $\frac{1}{4}$ on N. face from a juniper 16 ins. diam. bears S. $34^{\circ}W.$ 67 lks. dist. marked $\frac{1}{4} S. 2 B. S.$

A juniper 20 ins. diam. bears N. $41^{\circ} E.$.

230 lks. dist. marked $\frac{1}{4} S. 35 B. S.$

Thence I run

N. 86° E.

- 39.42 The cor. of secs. .35^{any} 36 which is a small p malpais, bears S. 31 lks., which makes the bearing of this 1/2 mile N. 86° 26' E. I re-establish this cor. as follows: Set a malpais 24x20x6 ins. in a md. of stone for cor. of secs. 1, 2, 35 + 36, marked with 1 notch on E. and 5 notches on W. edges, from which a juniper 10 ins. diam. bears N. 30° W. 166^{lks.} marked J. 18 N. R. 6 E. S. 35 B. J.
A juniper 10 ins. diam. bears N. 32° E. 466 lks. dist marked J. 18 N. R. 6 E. S. 36 B. J.
Land mountainous 76.42 chs.
Dense brush 76.42 chs.
Scattering junipers.
Soil 4th rate, rocky.

N. 88° E. bat. secs. 1 ^{and} 36.

39.81

The $\frac{1}{4}$ sec. cor. an undersized stone, bears N. 1 lks. which makes the bearing of this half mile N. $87^{\circ} 59' E.$ I re-build this cor. as follows:

Set a malpais $36 \times 10 \times 10$ ins. in a m.d. of stone for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face from which

A juniper 16 ins. diam. bears N. $77^{\circ} W.$ 42 lks. dist. marked $\frac{1}{4} S.$ 36 B.S.

No other tree in dist.

Raised a m.d. of stone $1\frac{1}{2}$ ft. high ^{and} 3 ft. base N. of cor. Thence I run: E.

The cor. of Sp. 17 ^{and} 18 N. R.s. 6 + 7 E. bears S. 10 lks. which makes the bearing of this $\frac{1}{2}$ mile S. $89^{\circ} 51' E.$ I re-build as follows:

Set a malpais $18 \times 6 \times 6$ ins. in a m.d. of stone for cor. of Sp. 17 + 18 N. R.s. 6 + 7 E. marked with 6 notches on N. S. E. + W. faces, from,

39.82
79.63

18

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An oak 10 ins. diam. bears N. 20° E. 302 lbs.

dist. marked S. 18 N. R. 7 E. S. 32 B. S.

A pine 18 ins. diam. bears N. 52° W. 212 lbs.

dist. marked S. 18 N. R. 6 E. S. 36 B. S.

A pine 10 ins. diam. bears S. 59° E. 149 lbs.

dist. marked S. 17 N. R. 7 E. S. 5 B. S.

A pine 10 ins. diam. bears S. 54° W. 186 lbs.

dist. marked S. 17 N. R. 6 E. S. 1 B. S.

Land mountainous, 79.63 chs.

Dense brush 79.63 chs.

Scattering pines + junipers.

Soil rocky, 4th var.

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Oct. 18: at 8 a.m., l.m.t. I set off $9^{\circ}24' S.$ on the decl. arc; $34^{\circ}54' N.$ on the lat. arc, & determine a true meridian with the solar at the cor. of Tps. 17 + 18 N. Rs. 6 + 7 E.; thence I run N. brt. sec. 36 + 32

Thro. dense brush & scattering pines
& oaks.

39.80 Thru $\frac{1}{4}$ sec. cor., which is a small stone, with marks on bearing trees overgrown, bears W. q. lks. which makes the bearing of this $\frac{1}{2}$ mile $N. 0^{\circ}08' W.$. I re-establish as follows:
Set a malpais $18 \times 16 \times 5$ ins. in a mud. of stone for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face, from which a pine 16 ins. diam. bears $N. 78^{\circ} W.$ 28 lks. dist. marked $\frac{1}{4} S.$, 36 B.T.
a pine 14 ins. diam. bears $S. 81^{\circ} E.$, 63 lks. dist. marked $\frac{1}{4} S.$, 32 B.T.

18 E. Bdry. Jp. 18 N. R. 6 E.

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I continue N. on same line.

79.86 The cor. of secs. 25, 36, 29 + 32 bears N.
20 lks. which makes the bearing of this
 $\frac{1}{2}$ mile $N. 0^{\circ} 09' W.$ I re-establish as follows:

Set a malpais $24 \times 10 \times 10$ ins. in a rd. of
stone for cor. of secs. 25, 36, 29 + 32,
marked with 1 notch on S. + 5 notches on

N. edge, from which

a pine 8 ins diam. bears $N. 5^{\circ} E.$ 153 lks. dist.
marked J. 18 N. R. 7 E. S. 29 B. J.

a pine 20 ins. diam bears $S. 81^{\circ} 30' E.$ 110 lks.

dist. marked J. 18 N. R. 7 E. S. 32 B. J.

Raised a rd. of stone 2 ft. high, 3 ft. base
W. of cor. No other trees in distance
Pits impracticable.

Land mountainous 79.86 chs.

Dense brush 79.86 chs.

Scattering pines oaks.

Soil rocky, 4th rate.

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N. brt. sec. 25 + 29

39.62 Ths $\frac{1}{4}$ sec. cor. - a small stone - brace
W. 18 lks. which makes the bracing
of this $\frac{1}{2}$ mile N. $0^{\circ} 15' W.$.

I re-establish this cor. as follows:

Set a malpais $16 \times 10 \times 10$ ins. in a rd.
of stone for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on
W. face from which a

Pine 14 ins. diam. brace N. $81^{\circ} E.$, 143
lks. dist. marked $\frac{1}{4}$ S. 29 B. S.

A pine 12 ins. diam. brace S. $65^{\circ} W.$, 142
lks. dist. marked $\frac{1}{4}$ S. 25 B. S.

Thence I run N.

79.62 Made diligent search but could
find no sec. cor. Set temp. cor.

Oct. 18, 1902.

Oct. 19, 1902; at 8 a.m. f.m.t. I set of $9^{\circ}45' S.$ on the
decl. arc; $34^{\circ}56' N.$ on the lat. arc; & determine
a true meridian, ^{with the solar} at the temp. cor. set last night.

Then I run N.

40.00 Made diligent search but could
find no $\frac{1}{4}$ sec. cor.

78.98 The cor. of secs. 13, 24, 17 + 20 bears
N. 371 lks. therefore, the course of the
line from the $\frac{1}{4}$ sec. cor. bet. secs.
 25^{th} and 29^{th} and this cor. is $N. 1047' W. 94\frac{1}{4}$
its length is 119.04 chs.

I re-establish this cor. as follows:

Set a malpais $14 \times 14 \times 10$ ins in a m.d. of
stone for cor. of secs. 13, 17, 20 + 24
marked with 3 notches on N+S. edge
from which

a pine 16 ins. diam. bears $N. 24^{\circ} E. 179$ lks,
marked S. 18 N. R. 7 E. S. 17 B. T.

A pine 30 ins. diam. bears $N. 52^{\circ} W. 218$ lks.
dist. marked S. 18 N. R. 6 E. S. 13 B. T.

a pine 12 ins. diam. brans S. 16° E. 238 lks.

dist. marked $\frac{1}{4}$ S. 18 N. R. $7^{\circ} 30'$ E. S. 20 B. S.

a pine 20 ins. diam. brans S. 62° W. 323 lks.

dist. marked $\frac{1}{4}$ S. 18 N. R. 6 E. S. 24 B. S.

N. brt. sec. 13 + 17.

Thro. dense pines & oaks.

H0.00 The $\frac{1}{4}$ sec. cor., a malpais $12 \times 6 \times 2$ ins
lying on the ground, brans W. 79 lks.
which makes the bearing of this
 $\frac{1}{2}$ mile N. $1^{\circ} 08'$ W. I re-establish by
setting a malpais $16 \times 12 \times 6$ ins. in a md.
of stones for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$
on W. face, from which
a pine 14 ins. diam. brans N. 49° W. 75 lks.
dist. marked $\frac{1}{4}$ S. 13 B. S.

a pine 36 ins. diam. brans N. 37° E. 51 lks.
dist. marked $\frac{1}{4}$ S. 17 B. S.

Since I run N.

~~39.72~~
~~79.72~~

The cor. of secs. 12, 13, 8 + 17, which is
a small stone lying on the ground,
I re-establish as follows:

Set a malpais $2\frac{1}{2} \times 8 \times 6$ ins. in ground ^{20 ins}

for cor. of secs. 12, 13, 8 + 17 marked
with 4 notches on S. + 2 notches on N.

edges, from which

a pine 16 ins diam. bears N. 34° E. 265 lks.
dist. marked S. 18 N. R. 7 E. S. 8 B. S.

a pine 24 ins diam. bears S. 28° E. 220 lks.
dist. marked S. 18 N. R. 7 E. S. 17 B. S.

a pine 20 ins diam. bears S. 49° W. 379 lks.
dist. marked S. 18 N. R. 6 E. S. 13 B. S.

a pine 20 ins diam. bears N. 7° W. 344 lks.
dist. marked S. 18 N. R. 6 E. S. 12 B. S.

Land mountainous ^{79.72}
~~79.92~~ chs.

Dense pines ^{79.72}
~~79.92~~ chs.

Soil rocky, 4th rate

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N. bat. secs. 8 + 12.

Thro. dense pine timber.

40.06 Tha $\frac{1}{4}$ sec. cor. - a malpais 13 x 6 x 2
ins. - which I re-establish as follows:
Set a malpais 20 x 12 x 6 ins in a md.
of stone for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W.
face, from which

a pine 24 ins diam. bears S, 60° E, 66
lbs. dist. marked $\frac{1}{4}$ S, 8 B, T.

a pine 24 ins diam. bears S, 11° W, 108
lbs. dist. marked $\frac{1}{4}$ S, 12 B, T.

61.00 Wagon road bears S 85° E + N, 85° W.

61.20 Gulch course S, 85° E.

80.19 Cor. of secs. 1, 12, 5 + 8, an undesignated
stone, bears W, 103 lbs. the bearing of
this $\frac{1}{2}$ mile is N, $1^{\circ} 28' W$.

I re-establish this cor. as follows:

Set a malpais 20 x 12 x 6 ins in a md. of
stone for cor. of secs. 1, 5, 8 + 12, marked

24 E. Bdy. Tp. 18 N. R. 6 E

BOOK 1420

with 5 notches on S. ^a/₄ 1 notch on N.
edges, from which

a pine 24 ins. diam. bears S. 52° W. 116 lks.
dist. marked T. 18 N. R. 6 E. S. 12 B. S.

a pine 24 ins. diam. bears S. 86° E. 34 lks.
dist. marked T. 18 N. R. 7 E. S. 8 B. S.

a pine 24 ins. diam. bears N. 64° E. 62 lks.
dist. marked T. 18 N. R. 7 E. S. 5 B. S.

a pine 24 ins. diam. bears N. 32° W. 96 lks.
dist. marked T. 18 N. R. 6 E. S. 1 B. S.

Land rough & rolling 80.19 chs.

Dense pines 80.19 chs.

Soil rocky, 4th rate.

E. Bidiy. Tp. 18 N. R. 6 E. 25.

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N. lat. sec. 1 and 5.

Ascending thru dense pines

3.70 Top of ridge bears N. 85° W. + S. 85° E.
Descend.

12.00 Gulch, coarse S. 70° W. ascend.

39.85 $\frac{1}{4}$ sec. cor. a small stone, bears E. 28
lks. which makes the bearing of
this half mile N. 0° 24' E.

I re-establish this cor. as follows:

Set a malpais 16x10x8 ins. in a mid. of
stone for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on
W. face, from which
a pine 36 ins. diam. bears S. 69° 30' W. 95
lks. dist. marked $\frac{1}{4}$ S. 1 B. S.

a pine 7 ins. diam. bears N. 76° E. 52
lks. dist. marked $\frac{1}{4}$ S. 5 B. S. Thence N
from $\frac{1}{4}$ cor.
Top of ascent.

39.65
77.50
41.12
80.97

The cor. of Tps. 18 & 19 N. Rs. 6 + 7 E., an
undersized stone, bears E. 47 lks.

which makes the bearing of this
 $\frac{1}{2}$ mile N. $0^{\circ}39' E.$

I re-establish this cor. as follows:

Set a malpais $18 \times 14 \times 6$ ins. in a m. of
 stone for cor. of Tps. 18 ^{and} 19 N. R. 6 + 7 E.
 marked with 6 notches on N. S. E + W.
 faces, from which

a pine 36 ins. diam. bears S. $48^{\circ} W.$ 98 lks.
 dist. marked T. 18 N. R. 6 E. S. 1 B. S.

a pine 36 ins. diam. bears S. $28^{\circ} E.$ 120 lks.
 dist. marked T. 18 N. R. 7 E. S. 5 B. S.

a pine 38 ins. diam. bears N. $45^{\circ} W.$ 62 lks.
 dist. marked T. 19 N. R. 6 E. S. 36 B. S.

a pine 36 ins. diam. bears N. $28^{\circ} E.$ 53 lks.
 dist. marked T. 19 N. R. 7 E. S. 32 B. S.

Land rough 80.97 chs.

Dense pines 80.97 chs.

Soil rocky $4\frac{1}{2}$ rats.

Oct. 19. 1902.

Jan. 1, 1904; Near the cor. of Tps. 17 & 18 N., R.s. 6 & 7 W.
 at noon, ^{12 h 3' 11"} I set off $23^{\circ} 03' 0''$ S. on the decl. arc,
 and observe the sun on the meridian; the
 resulting lat. is $34^{\circ} 54' N.$

Jan. 1, 1904.

Jan. 2: at 9 a.m. I. m.t. I set off $22^{\circ} 58' S.$
 on the decl. arc; $34^{\circ} 55' N.$ on the lat.
 arc; ^{and} determine a true meridian
 with the solar at the $\frac{1}{4}$ sec. cor. lat.
 secc. 25 ^{and} 29 times I run
 $N. 1^{\circ} 47' W.$ but. secc. 25 + 29.

Over mountainous land, thro dense
 pine timber ^{and} oak brush.

^{39.68}
 39.66 Set a malpais $22 \times 14 \times 10$ ins in a md.
 of stone for cor. seccs 20, 24, 25 + 29
^{and} raised a md. of stone 2 ft. high, 4 ft.
 base W. of cor. pits impracticable.
 Land mountainous 79.28 chrs.

Dense pines 70.00 chrs.

Dense brush 79.28 chrs.

28 E. B-dig. Sq. 18 N. R. 6 E.

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N. $1^{\circ} 47' W.$ brt. secs. 24 + 20.

7.00 Edge of point of bluff of East Fork
of Oak Creek, brns S. $10^{\circ} E.$ + S. $80^{\circ} W.$

Descend abruptly.

21.00 Bottom of cañon, course S. $70^{\circ} W.$

Ascend abruptly.

~~39.68~~
~~39.66~~ The point for $\frac{1}{4}$ sec. cor. comes in

unsafe place on steep slope
Top of bluff N. side of cañon,
brns E + W.

45.77 Set a malpais $18 \times 14 \times 10$ ins. in a
md. of stone for witness $\frac{1}{4}$ sec. cor.
marked W.C. $\frac{1}{4}$ on W. face, ^{and} raised
a md. of stone 2 ft. high, 3 ft. base
W. of cor. pits impracticable

~~79.36~~
~~79.32~~ The cor. of secs. 17 $\frac{3}{4}$ + 20, the marking
of which I change to refer to E. sec. only,
land mountainous 79.32 chs.

Dense brush 79.32 chs.

Jan. 2, 1904.

General Description

The S. bdy. of this Tp. is extremely rough ^{and} mountainous

The canon of Oak Creek, about 2000 feet deep crosses the south boundary of sec. 33.

Oak Creek is a rapid mountain stream of pure, clear water about 50 lks. wide.

The high mesa lands are generally covered with a good growth of pine. The East boundary is mostly on the high plateau of the Mogollon mountains; but is cut by the East Fork of Oak Creek in sec. 21 containing no water.

W. Oscar Facer.

U.S. Deputy Surveyor.

Latitude and Departures for 18N.R. 6E.³⁰

Line.	True Bearing	Distance	Latitudes	Departures.		
			N	S	E	W.
BOOK 1420						
E. Bay. Dec. 36	N. $0^{\circ}08'W$.	39.80	39.80			.09
" " 36	N. $0^{\circ}09'W$	40.06	40.06			.11
E. Bay. Dec. 25	N. $0^{\circ}15'W$	39.62	39.62			.18
" " 25	N. $1^{\circ}47'W$	39.68	39.66			1.23
E. Bay. Dec. 24	N. $1^{\circ}47'W$	79.36	79.32			2.46
Bet. 15 and 17	N. $1^{\circ}08'W$	40.00	39.99			79.
3 " " "	North	39.72	39.72			
Bet. 8 and 12.	North	40.00	40.00			
" " "	N. $1^{\circ}28'W$	40.19	40.18			1.03
Bet 1 and 5	N. $0^{\circ}24'E$	39.85	39.85			
" " "	N. $0^{\circ}39'E$	41.12	41.12			
N. Bay. Dec. 1	N. $89^{\circ}55'W$	80.25	.12			80.25
N. Bay. Dec. 2	S. $89^{\circ}24'W$	80.43		.84		80.42
N. Bay. Dec. 3	N. $89^{\circ}32'W$	74.80	.61			74.79
S. Bay. Dec. 4	N. $89^{\circ}34'W$	79.90	.65			79.89
Bet. 4 and 5	S. $0^{\circ}02'E$	80.40		80.40	.05	
Bet. 8 and 9	S. $0^{\circ}02'E$	80.00		80.00	.05	
Bet. 16 and 17.	S. $0^{\circ}02'E$	80.00		80.00	.04	
Bet. 20 and 21	S. $0^{\circ}02'E$	80.00		80.00	.05	
Bet. 28 and 29	S. $0^{\circ}02'E$	80.00		80.00	.04	
Bet. 32 and 33	S. $0^{\circ}02'E$	96.92		96.92	.05	
S. Bay 33	East	21.80				21.80
S. Bay 33	N. $89^{\circ}48'E$	38.63	.12			38.62
S. Bay. 33	N. $74^{\circ}23'E$	24.86	6.69			23.94
S. Bay. 34	N. $86^{\circ}12'E$	79.35	5.26			79.18
S. Bay. 35	N. $87^{\circ}41'E$	37.00	1.49			36.99
S. Bay. 35	N. $86^{\circ}26'E$	39.40	2.45			39.32
S. Bay. 36.	N. $87^{\circ}59'E$	39.81	1.40			39.78
S. Bay. 36.	S. $89^{\circ}51'E$	39.82				39.82
	Total	498.15	10			
		498.11	498.26	320.46	321.24	
		498.15	498.15	320.51	320.46	
BOOK 1420	Guerin	lat	.15			78.
						1.24

For oaths 19 - 6.

For final oaths prior to Jan. 1st 1904,
see sube - T. 19 N., R. 6 E. After Jan. 1st 1904, see
sube - T. 18 N., R. 6 E.

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A P P R O V A L.

Office of the
United States Surveyor-General,
Phoenix, Arizona.

May 10-1904

The foregoing field notes of the survey of South & East Boundary of T. 18 N., R. 6 E.

of the Gila and Salt River Base and Meridian, in the Territory of Arizona.

Executed by W. Oscar Sebor,

United States Deputy Surveyor, under his contract No. 102, dated June 30, 1904, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank A. Bragall

U. S. Surveyor-General.