

RECORD OF SURVEY No. 32-82

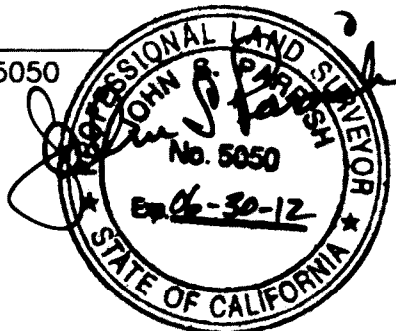
SHEET 1 OF 6 SHEETS

IN THE UNINCORPORATED TERRITORY OF THE COUNTY OF MONO, STATE OF CALIFORNIA, BEING SECTION 1, TOWNSHIP 4 NORTH, RANGE 23 EAST, TOGETHER WITH THE EAST LINE OF SECTION 36, TOWNSHIP 5 NORTH, RANGE 23 EAST, AND A PORTION OF THE HOOVER WILDERNESS BOUNDARY IN SECTION 15, TOWNSHIP 4 NORTH, RANGE 23 EAST, MOUNT DIABLO MERIDIAN

COUNTY SURVEYOR'S STATEMENT:

THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH SECTION 8766 OF THE PROFESSIONAL LAND SURVEYOR'S ACT THIS 2nd DAY OF March, 2011.

JOHN S. PARRISH, L.S. NO. 5050
COUNTY SURVEYOR



JOHNSON-FRANK & ASSOCIATES, INC.
ALAN D. FRANK, PLS
SEPTEMBER 2010

SURVEYOR'S STATEMENT:

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYOR'S ACT AT THE REQUEST OF THE USDA, FOREST SERVICE, IN JUNE-SEPTEMBER 2010.

ALAN D. FRANK, L.S. NO. 7172 CFEOS 1091

RECORDER'S STATEMENT:

INSTRUMENT NO. 2011001707

FILED THIS 4th DAY OF MARCH, 2011
AT 2:30 P.M., IN BOOK 4 OF RECORD OF SURVEY
MAPS AT PAGES 92-92E, AT THE REQUEST OF THE
UNITED STATES FOREST SERVICE.

LINDA ROBERTS BY Sheena B. Hale
COUNTY RECORDER DEPUTY COUNTY RECORDER

FEE \$ 0.00

BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS RECORD OF SURVEY IS THE CALIFORNIA COORDINATE SYSTEM, NAD83 (CCS83) [2002.00 EPOCH], STATE PLANE GRID ZONE 3, AS DERIVED FROM THE CONTINUOUSLY OPERATING GPS (CGPS) STATIONS P135, P136, AND P654. POSITIONS FOR SAID CGPS STATIONS WERE DERIVED VIA THE NATIONAL GEODETIC SURVEY'S (NGS) ONLINE POSITIONING USER SERVICE (OPUS). TWENTY FOUR HOUR DATA SETS FOR EACH OF THESE CGPS SITES WERE SUBMITTED TO OPUS FOR DAYS 124 (MAY 4, 2010), 125 (MAY 5, 2010), AND 126 (MAY 6, 2010). THE THREE POSITIONS RETURNED VIA OPUS FOR EACH STATION WERE THEN AVERAGED AND HELD AS FIXED CONTROL. THE STANDARD DEVIATION OF THE MEAN FOR THE POSITION OF EACH STATION, AS DERIVED FROM THE NGS OPUS STANDARD DEVIATIONS ON EACH INDIVIDUAL RETURNED POSITION, ARE AS FOLLOWS:

	HORIZONTAL	VERTICAL
P135	+/-0.04'	+/-0.07'
P136	+/-0.05'	+/-0.05'
P654	+/-0.02'	+/-0.06'

THIS BASIS OF BEARINGS IS SHOWN LOCALLY HEREON BY THE SOUTH LINE OF SECTION 1, BETWEEN STATIONS 600600 AND 700600, SAID LINE HAVING A GRID BEARING OF N88°48'15"E.

CONVERGENCE: GEODETIC AZIMUTH = GRID AZIMUTH + 0°40'09"

ALL BEARINGS SHOWN HEREON ARE GRID BEARINGS WITH THE EXCEPTION OF RECORD BEARINGS, WHICH ARE ALL TRUE NORTH BEARINGS.

BASIS OF COORDINATES:

THE BASIS FOR THE COORDINATES ON THIS RECORD OF SURVEY IS THE CCS83 (2002.00 EPOCH), ZONE 3, AS DETERMINED LOCALLY BY DIRECT GPS DUAL FREQUENCY STATIC TIES TO CGPS STATIONS P135, P136, AND P654 USING POSITIONS FOR SAID CGPS STATIONS DERIVED AS DESCRIBED ABOVE. SAID POSITIONS FOR SAID STATIONS ARE PART OF THE CALIFORNIA SPATIAL REFERENCE NETWORK (CSRN) IN THAT THEY MEET ALL OF THE REQUIREMENTS OF SECTION 8857 OF THE CALIFORNIA PUBLIC RESOURCES CODE (CPRC). THE OPUS DERIVED HORIZONTAL ACCURACIES ON THESE STATIONS MEET OR EXCEED THE FEDERAL GEOGRAPHIC DATA COMMITTEE (FGDC) 2-CENTIMETER ACCURACY CLASSIFICATION PER FGDC-STD-007.2-1998. SAID OPUS DERIVED POSITIONS FOR SAID CGPS STATIONS WERE HELD "FIXED" IN THIS SURVEY.

NO CPRC SECTION 8813.2 ACCURACY IS CLAIMED FOR THE COORDINATE POSITIONS DERIVED IN THIS SURVEY. HOWEVER, ALL FOUND MONUMENTS WERE TIED DIRECTLY TO THE THREE CONTROLLING CGPS STATIONS AS WELL AS TO AT LEAST TWO ONSITE CONTROL STATIONS USING DUAL FREQUENCY STATIC, POST-PROCESSED GPS, RESULTING IN A LOCAL NETWORK 95% CONFIDENCE OF ±0.12 FOOT (±3.7 CM) FOR THOSE STATIONS. THIS NETWORK ACCURACY EXCEEDS THAT SPECIFIED IN THE U.S. FOREST SERVICE'S "STANDARDS AND GUIDELINES FOR CADASTRAL SURVEYS USING GLOBAL POSITIONING SYSTEM METHODS", WHICH REQUIRES A LOCAL ACCURACY 95% CONFIDENCE ON CADASTRAL MEASUREMENTS OF LESS THAN ±0.33 FOOT (±10 CM).

SCALE FACTOR:

DISTANCES SHOWN HEREON ARE GROUND DISTANCES, UNLESS NOTED "GRID", WHICH INDICATES STATE PLANE GRID DISTANCES, SHOWN IN U.S. SURVEY FEET. TO OBTAIN GRID DISTANCES COMMENSURATE WITH STATE PLANE COORDINATES, MULTIPLY THE GROUND DISTANCES BY A COMBINED FACTOR (CF) OF 0.99958. THIS CF WAS COMPUTED AT THE SOUTHWEST CORNER OF SECTION 36, STATION 600100, AT AN ELEVATION OF 8199 FEET.

GRID DISTANCE = GROUND DISTANCE X 0.99958

PURPOSE OF SURVEY:

THE PURPOSE OF THIS SURVEY IS TO LOCATE, MONUMENT, MARK, AND POST THE NATIONAL FOREST PROPERTY BOUNDARY. SAID PROPERTY BOUNDARY LINES HAVE BEEN INTERVISIBLY POSTED AT A MAXIMUM INTERVAL DISTANCE OF 200 FEET.

THIS MAP IS BEING FILED PURSUANT TO THE PROFESSIONAL LAND SURVEYOR'S ACT, CHAPTER 15, ARTICLE 5, SECTION 8762, PARAGRAPH (A) & (B)(2), OF THE BUSINESS AND PROFESSIONS CODE.

HISTORY OF SURVEYS AND BOUNDARY DISCUSSION:

THERE WERE SEVERAL GENERAL LAND OFFICE SURVEYS COVERING THE SECTION, TOWNSHIP, AND RANGE LINES INVOLVED IN THIS SURVEY.

THE EAST BOUNDARY OF T4N, R23E, WAS SURVEYED BY GENERAL LAND OFFICE (GLO) DEPUTY SURVEYOR S.A. HANSON IN 1882. THE SOUTH BOUNDARY OF T5N, R23E, WAS SURVEYED BY GLO DEPUTY SURVEYOR C. HOLCOMB IN 1884. THE EAST BOUNDARY OF T4N, R23E, WAS RESURVEYED, AND THE SUBDIVISIONAL LINES OF THE TOWNSHIP WERE SURVEYED, BY J.R. GLOVER IN 1885. THE EAST BOUNDARY OF T5N, R23E, WAS SURVEYED BY GLO DEPUTY SURVEYOR S.A. HANSON IN 1882, AND RESURVEYED BY GLO DEPUTY SURVEYOR J.R. GLOVER IN 1884. THE ORIGINAL PLAT WAS APPROVED FEBRUARY 5, 1895. (R3)

THE SOUTH LINE OF S36, T5N, R23E, TOGETHER WITH THE EAST LINE, SECTION LINES, AND SECTIONAL BREAKDOWN LINES, OF S1, T4N, R23E, WERE RETRACED BY BUREAU OF LAND MANAGEMENT (BLM) CADASTRAL SURVEYOR NORMAN J. McDONALD IN 1966. (R2)

THE EAST LINE OF S36, T5N, R23E, WAS RETRACED BY BLM CADASTRAL SURVEYOR DAVID L. DUKLETH BETWEEN 1991 AND 1997. (R1)

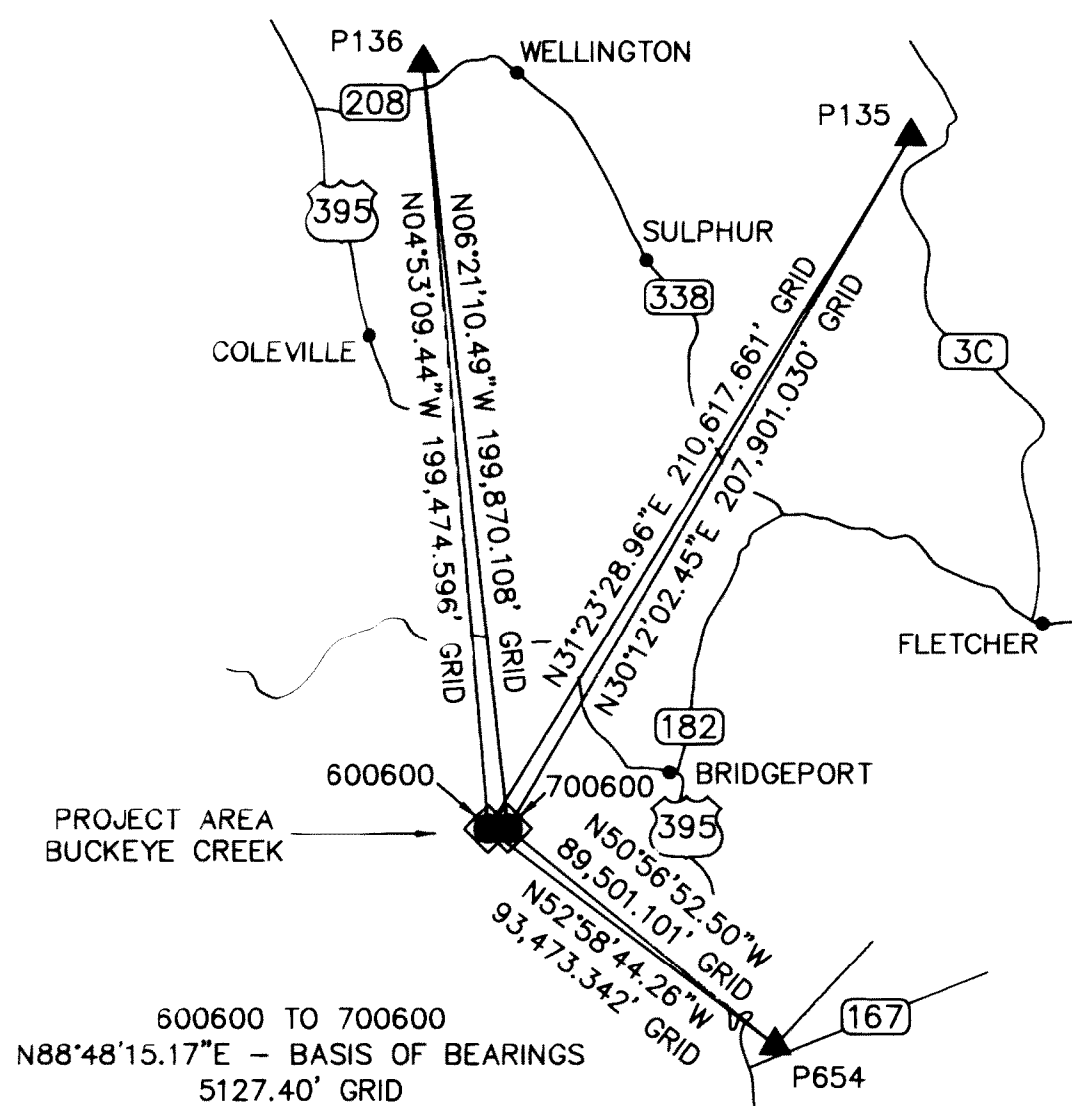
OUR RESEARCH DID NOT UNCOVER ANY NON-FEDERAL SURVEYS CONDUCTED IN THE AREAS SHOWN HEREON.

OUR RETRACEMENT OF S1, T4N, R23E, FOUND NUMEROUS ERRONEOUS DISTANCES AND ERRONEOUSLY SET MONUMENTS AS PART OF THE 1966 BLM McDONALD SURVEY. THE MOST IMPORTANT ASPECT OF WHICH WERE ERRONEOUS BEARINGS AND DISTANCES TO THE FOUND ORIGINAL SOUTHEAST CORNER OF THE SECTION.

WE FIND SAID SOUTHEAST CORNER INTACT, WITH BOTH ORIGINAL AND 1966 EVIDENCE. HOWEVER, THE POSITION OF SAID CORNER DIFFERS FROM THAT REPORTED IN 1966 BY NEARLY 100 FEET. WE FIND THE SOUTHERLY SECTION LINE TO MEASURE 1.08 CHAINS (71.25 FEET) SHORTER THAN REPORTED IN 1966, AND THE EAST LINE TO MEASURE 1.03 CHAINS (68.29 FEET) SHORTER. THE TROUBLE IS, AS NEITHER THE EAST OR SOUTH 1/4 CORNERS WERE FOUND, ALL OF THE SUBDIVISIONAL BREAKDOWN OF THIS SECTION PERFORMED IN 1966 WAS BASED ON AN ERRONEOUS POSITION AND IS THEREFORE INVALID IN ITS ENTIRETY WITHIN THE INTERIOR OF THE SECTION.

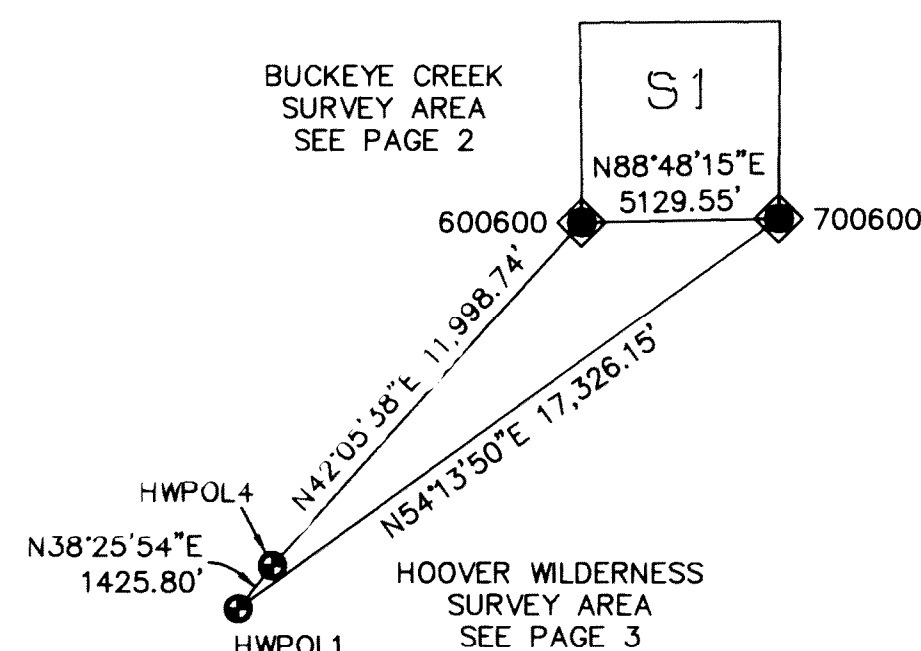
DISCUSSIONS WERE HELD WITH BLM PERSONNEL; LANCE BISHOP, JAMES McCAVITT, AND BRIAN MIKKELSEN. WITH THEIR CONCURRENCE, IT WAS DECIDED THAT WE WOULD HOLD MONUMENTS FROM THE 1966 SURVEY ALONG THE WEST AND NORTH LINES, IF SAID MONUMENTS WERE FOUND WITHIN 1966 TOLERANCES. IT WAS FURTHER DECIDED THAT THE INTERIOR OF THE SECTION WOULD BE COMPLETELY AND PROPERLY RESUBDIVIDED BASED ON THE TRUE LOCATION OF SAID SOUTHEAST CORNER, THAT FOREST MONUMENTS WOULD BE SET AT THE TRUE 1/16'S ALONG THEIR PROPERTY LINE AS SHOWN HEREON, THAT BLM MONUMENTS WOULD BE LEFT IN PLACE, UNDISTURBED, AND THAT BLM WOULD FOLLOW UP WITH A CORRECTIVE SURVEY IN THE FUTURE, AT WHICH TIME THEY WOULD ACCEPT THE FOREST MONUMENTS SET HEREON, REMONUMENT ANY CORNERS SET FROM THE 1966 SURVEY THAT WERE NOT REMONUMENTED HEREON, AND REMOVE THE ERRONEOUS BLM MONUMENTS.

STATION	LATITUDE	LONGITUDE	(U.S. SURVEY FEET) NORTHING	EASTING	STATION
100700	38-14-30.2702	119-23-20.6294	2276510.20	6880725.98	100700
600100	38-13-45.5969	119-24-26.7632	2271929.41	6875503.00	600100
600600	38-12-54.5240	119-24-25.4844	2266764.63	6875665.37	600600
600620	38-13-07.3945	119-24-25.4648	2268066.48	6875651.72	600620
600640	38-13-20.2928	119-24-25.4780	2269371.12	6875635.44	600640
600660	38-13-33.1614	119-24-25.4589	2270672.79	6875621.76	600660
600700BLM	38-13-45.6239	119-24-25.4491	2271933.36	6875607.82	600700BLM
620100	38-13-45.5433	119-24-10.6836	2271939.00	6876786.01	620100
620100BLM	38-13-45.4905	119-24-09.0606	2271935.18	6876915.57	620100BLM
620600BLM	38-12-54.4781	119-24-09.3001	2266775.10	6876956.97	620600BLM
620620	38-13-07.4758	119-24-09.3580	2268089.75	6876936.93	620620
620620BLM	38-13-07.3308	119-24-09.1957	2268075.23	6876950.06	620620BLM
620640WC	38-13-20.3241	119-24-09.9189	2269388.82	6876876.93	620640WC
620640WCBLM	38-13-20.2564	119-24-10.2905	2269381.63	6876847.36	620640WCBLM
620660	38-13-33.1558	119-24-09.2180	2270687.38	6876917.64	620660
620660BLM	38-13-33.1144	119-24-08.3536	2270684.00	6876986.66	620660BLM
620700	38-13-45.5382	119-24-09.1460	2271939.92	6876908.70	620700
620700BLM	38-13-45.4870	119-24-07.5244	2271936.26	6877038.14	620700BLM
640100	38-13-45.4897	119-23-54.6041	2271948.65	6878069.02	640100
640600	38-12-54.7557	119-23-53.3624	2266818.13	6878228.51	640600
640600BLM	38-12-54.4869	119-23-53.0029	2266791.28	6878257.52	640600BLM
640620BLM	38-13-07.3289	119-23-52.9257	2268090.30	6878248.38	640620BLM
640640	38-13-20.3573	119-23-53.1073	2269407.94	6878218.37	640640
640640BLM	38-13-19.4276	119-23-52.9180	2269314.08	6878234.58	640640BLM
640660	38-13-33.1495	119-23-52.9798	2270701.98	6878213.31	640660
640660BLM	38-13-33.1881	119-23-52.7146	2270706.13	6878234.42	640660BLM
640700	38-13-45.4812	119-23-52.8569	2271949.43	6878208.43	640700
660100BLM	38-13-45.3962	119-23-38.5220	2271954.33	6879352.27	660100BLM
660640BLM	38-13-20.1593	119-23-36.5732	2269403.48	6879537.94	660640BLM
660660	38-13-33.1433	119-23-36.7407	2270710.64	6879509.05	660660
660660BLM	38-13-33.0627	119-23-36.5996	2270708.62	6879520.40	660660BLM
660700	38-13-45.4218	119-23-36.5619	2271958.76	6879508.63	660700
660700BLM	38-13-45.3852	119-23-36.5659	2271955.05	6879508.35	660700BLM
700100	38-13-45.3703	119-23-22.4495	2271966.89	6880634.68	700100
700120	38-13-58.4934	119-23-21.9610	2273294.75	6880657.91	700120
700140	38-14-11.6115	119-23-21.4655	2274622.09	6880681.69	700140
700200	38-14-38.4618	119-23-20.2639	2277339.13	6880745.30	700200
700600	38-12-54.9851	119-23-21.2403	2266871.63	6880791.65	700600
700640	38-13-20.4194	119-23-20.7456	2269444.75	6880800.59	700640
700640BLM	38-13-20.1275	119-23-20.2912	2269415.65	6880837.20	700640BLM
700660BLM	38-13-32.9456	119-23-20.2795	2270712.20	6880822.74	700660BLM
700700	38-13-45.3704	119-23-20.2602	2271968.97	6880809.36	700700
HWPOL1	38-11-16.5267	119-26-18.7417	2256748.29	6866739.56	HWPOL1
HWPOL2	38-11-17.7751	119-26-16.8649	2256876.26	6866887.96	HWPOL2
HWPOL3	38-11-25.6797	119-26-08.4587	2257683.42	6867549.95	HWPOL3
HWPOL4	38-11-27.4633	119-26-07.4872	2257864.72	6867625.44	HWPOL4
P135	38-42-16.6215	119-00-55.2827	2446554.01	6985372.15	P135
P136	38-45-40.9047	119-27-30.6405	2465514.37	6858675.84	P136
P654	38-03-28.5485	119-09-00.6265	2210483.56	6950295.84	P654



CONTROL SCHEME & VICINITY MAP

SCALE: APPROXIMATELY 1"=50,000'



HOOVER WILDERNESS VICINITY MAP

SCALE: APPROXIMATELY 1"=10,000'