

Anderson Peak

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## Anderson PEAK a jewel UNDER the big sur sky



36" Ritchey -Cretien  
Cassegrain on a computer  
controlled high speed  
AZ/EL mount

4020' MSL above Julia Pfeiffer  
Burns State Park, (Big Sur, CA)

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# Anderson Peak

ANDERSON PEAK, BIG SUR COASTAL VIEWS @ 4020' MSL  
SOUTH, NORTH



# Andy Peak; 36 10 52N, 121 38 32W

ANDY PEAK FACILITY; Telescopes; Dome, Telescope Control Room Building, Crew Qtrs, with Hot/Cold water, Shower/Bath , Bunk Room, Kitchen, Backup 60 KW AC Generator, Telecommunications Tower, Machine/Tech Shop, 5K water tank, Crystal Clear Sky



## Development of the Deployment Mapping Instrument for SAMTEC

- ▣ Baker, R. L.; Lynch, R. P.; Cornell, J. E.
- ▣ System aspects of electro-optics; Proceedings of the Seminar, Huntsville, Ala., May 22, 23, 1979. (A80-21801 07-74) Bellingham, Wash., Society of Photo-Optical Instrumentation Engineers, 1979, p. 98-112.
- ▣ The Tracking Instrument Mount (TIM), originally developed for NASA by the Naval Ordnance Test Station, China Lake, California, and consisting of a 36 inch Cassegrain telescope and hydraulic driven, cable wrap mount, has been adapted to meet SAMTEC requirements and installed at the Anderson Peak Site in Big Sur, California. The location provides excellent coverage for westerly missile launches from Vandenberg Air Force Base, California. System design considerations during performance of this task include: site selection and preparation, mount drive system refurbishment and modifications; telescope optical component replacement and modifications; and sensor interface development. The foundation is the result of a soil study and is designed to provide vibration isolation and stability. The Ritchey-Chretien Cassegrain configuration was selected for minimum field of view errors to optimize data from low light level television for detection and measurement of reentry vehicle deployment.
- ▣ Other features include a remote controlled 288 through 1440 inch reimaging system, primary mirror pneumatic-mercury belt support system, remote controlled neutral density filter turret, and piggyback telescopes. Predicted optical performance values are presented. Keywords: CASSEGRAIN OPTICS, DEPLOYMENT, MAPPING, OPTICAL TRACKING, TELESCOPES, TRACKING STATIONS, MISSILE LAUNCHERS, PERFORMANCE TESTS, RANGE AND RANGE RATE TRACKING, REENTRY VEHICLES, REMOTE CONTROL, TELEVISION SYSTEMS

## Space and Missile Test Center Landbased Instrumentation Handbook.

- ☐ .
- ☐ Authors: **FEDERAL ELECTRIC CORP VANDENBERG AFB CALIF**
- ☐
- ☐ APPROVED FOR PUBLIC RELEASE
- ☐ **Pages:**
- ☐ 252
- ☐ **Report Date:**
- ☐ APR 1972
- ☐ **Contract Number:**
- ☐ F0470172C0102
- ☐ **Report Number:**
- ☐ 0449057

Andy Peak 36", Dome; Local California Condors; Both are Endangered species





# Machine Shop, Elex Mtce, Crew Qtrs



# Anderson Peak Control Room

Early Photo; No longer complete





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# Anderson Peak Control Console

Currently Inop. due to Microvax Removed





# Anderson Peak Control Room



Anderson Peak;  
Joystick Manual Control, Ctr; Octec Automatic  
Tracking ;Left



Main 36" F/8 Scope with smaller refractor arrays on high speed mount;  
Max Slew rates: Horiz:15 deg /sec; Vert: <10 deg/Sec



BASIC FOCAL LENGTH = 288"; Magnifiers x 1 - x5 □  
1440" : 36576 mm Max Equivalent Focal length

# Anderson Peak Telescope Switched Rotary Light magnifier/amplifier





Anderson Peak Mirror, Rear; 600lbs  
Note Special Pneumatic Air Bag Support cushion for  
high elevation angles





Anderson Peak 36" Big Barrel;  
Cassegrain Mount





# Anderson Peak Futures:

- ▣ Anderson Peak is as we speak being set for being demolished by the USAF.
- ▣ In spite of cooperative efforts to save it, including encouragement and support by the USAF, a hostile land owner is refusing any future access to the site, for purposes of re use of the telescope, even if remote controlled via the Internet.
- ▣ The landowner is interpreting the Access Easement document filed in 1994, Monterey County, in a way that allows him to prohibit any future access for this purpose.
- ▣ This land owner confronted the USAF, and contractors with his interpretation of the easement, that the easement allows him to land lock the small USA (Govt) property from further access for use of the telescope, asserting that the Observatory must be taken down, when the USAF vacates their US Forest Service Permittee agreement.
- ▣ Further discussion Planning and response; See:
- ▣ <http://www.saveandersonpeak.wordpress.com>
- ▣ BEST, de Pat, [Apolloeme@live.com](mailto:Apolloeme@live.com)