		DAT	A SHEI	ED H029	215-7
Form 10-306 (Oct. 1972) UNITED S NA	TATES DEPARTME	NT OF THE INTER	RIOR	STATE:	
NATIONAL PE				Arizona County:	
INVENTO	RY - NOMINAT	ON FORM	S	Yuma	
FOR (Type all entri	FEDERAL PROPE	RTIES	-	FOR NPS U	SEONLY
NAME		icable sections)			det sove
COMMON:					<u>ant c 19/9</u>
AND/OR HISTORIC:	Peak Observa	tory			
LOCATION		0			
STREET AND NUMBER:	Will C				
T.5 N., R.10 W.	, Sec. 6: NE	NWZNWZ, G&S	RM		
40 air miles SU	Wonden n	-ce	CONGRESSIO	NAL DISTRICT:	
STATE:	or wrekenburg	, Arizona	3		
Arizona		04	Yuma		CODE
CATECODY	T				027
(Check One)		OWNERSHIP		STATUS	
Site Structure	E Public	Public Acquisitio	on :	Occupied	Yes
Object	Both	In Proces	5	X Unoccupied	Restricted
		Being Cou	nsidered	Preservation work	🕱 Unrestricted
RESENT USE (Check One or M	lore as Appropriate)			in progress	⊡ No
Agricultural 🔲 Go	vernment	Park			
_ Commercial _ Ind	ustrial	Private Residence	ין סואל יי	ransportation	Comments
Sentertainment Mil	i tary	Religious	liv	estock grazin	g
ENCY	seum	Scientific	hun	ting	
United States Depar	tment of the	T			
Bureau of Land Mana	gement	Interior			<u> </u>
EGIONAL HEADQUARTERS: (I	f applicable)		STREET AN	D NUMBER:	R
THOENIX District Of	fice	,	2929 W	est Clarendon)Z(
Phoenix,			STATE:	0.50	CODE
CATION OF LEGAL DESCR	IPTION		<u> </u>	<u>na 85017</u>	04 🔺
United States Depar	EEDS, ETC:	-			
TREET AND NUMBER:	cheffe of the	Interior, I	Bureau of	Land Manageme	nt 🖍
2929 West Clarendon					3
Phoonin			STATE:		9
Intentx			Arizon	na 85017	CODE
RESENTATION IN EXICTIO					04
TLE OF SURVEY:	6 SURVEYS				
				5111617	
TE OF SURVEY:	E Feder	al State		NINY PERFINIE	
FOR SURVEY RECO	PRDS:			- UCUEIVED	- for a
REET AND NUMBER:				DEC 1 7 197	3 7 7 18
				NATIONAL	
TY OR TOWN:		1	STATE:	REGISTER	S/ 13
					SCODE -
				- Vertit	

SEE INSTRUCTIONS

				(Check One)		U
CONDITION	Excellent	Check One) Fair	Deteriorated	Check	One)
	Alter	ed X)] Unaltered		Moved X] Original Site
ESCRIBE THE P	RESENT AND ORIC	SINAL (if know	WN) PHYSICAL	APPEARANCE	August	
Site	consists of	two buil	dings, on	e of which i	s a two st	ory double
adobe	building.	The othe	r buildin	g is a small	storage s	hed. These
build: Build	ings are par	tially d	eceriorat	ed and slight	ne vandal	Izeu.
Duriu	ings are not	, being u		e present en		
					_	
				301 Q	1 August	
				DECA		
				AS RECEIVE		
				m DEC 1 7 19	3	
				ANATION	AL O	
				REGIST		
					KS -	
					N. F.	
		•				

•`

SEE INSTRUCTIONS

	Form 10-300a (July 1969)	UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE NATIONAL REGISTER OF HISTORIC PLACES INVENTORY - NOMINATION FORM	STATE Arizona COUNTY Yuma FOR NPS USE ONLY
		(Continuation Sheet)	ENTRY NUMBER DATE
	(Number all entrie	s)	<u> </u>
	7. Descrip The lar	ge, two-story building at the Harquahala	Peak Observatory is built
cement elemen	on a ronts , the str corruga	ock and mortar foundation. Of double-wall ructure has wooden supports and beams, and ated tin. Several lightning rods are still	ed, adobe construction, with pou is sided and roofed with l in place on the roof.
	The bas an entr at that	sement, which comprises the first floor of ance at the southern end. A metal barred c entrance. (see photos).	the main building, has door is still in place
	The two of the westerr	b second floor entrances are on the eastern building. Wooden porches, one of which is a side of the building, led up to the second	n and western exposures s still intact on the nd floor doors.
	Along t	the northern end of the building is a cemer	nt water catchment device.
	To the which i	south of the larger building is a small, a smade of corrugated metal sheeting with a	one room, storage shed, a cement foundation.
	The obs to hous	ervatory buildings were built in 1920 by - e scientists and solar observing equipmen	the Smithsonian Institution t_{\bullet}
	Harquah portion the bas (1500 the are	ala Peak Observatory, at an altitude of 50 of a desert mountain range, the Harquaha in and range province, the mountains are 2000') plain. Other isolated mountain range a.	680', lies in the central la Mountains. Part of surrounded by a low ges are found throughout
	Vegetat of gras is gemi July an climate	tion surrounding the observatory is low deses, yuccas, mimosas, acacias, and bear-gra- arid. The area has a minimum of rainfall ad August, summer temperatures in the 100's	sert scrub, which consists ass. Climate in the area 1, most of which falls in s, and a mild winter
			RECEIVED AUG 07 1975 NATIONAL
			REGISTER LUS

PERIOD (Check One or More as A	ppropriate)	2	
🌅 Pre-Columbian	16th Century	🔲 18th Century	🔀 20th Century
15th Century	17th Century	19th Century	
PECIFIC DATE(S) (If Applicable	and Known) 1920-19	25	
REAS OF SIGNIFICANCE (Chec	k One or More as Appropriat	e)	
Aboriginal	Education	Political	🛄 Urban Planning
Prehistoric	📋 Engineering	🔄 Religion/Phi-	Other (Specify)
Historic	🗌 Industry	- losophy	
Agri culture	Invention	X Science	
Architecture	Landscape	Sculpture	
Art	Architecture	🔲 Social/Human-	
Commerce	Literature	itarian	
Communications	Military	Theater	
Conservation	Music	Transportation	

From 1920 to 1925 the Smithsonian Institute operated a "Solar Astrophysical Observatory" at this site. Scientific study of the sun was conducted for this five-year period. The site is unique in Arizona and one of three or four such sites in the entire United States.

Arizona, with its high frequency of clear and cloud-free days and nights, is increasingly referred to as the "world-wide capital" of astronomical research. The significance of astronomy in Arizona can be traced from historical sites, such as Harquahala Peak Observatory, to modern facilities such as Kitt Peak and Lowell Observatory.

DEC 1 7 1973 NATIOI

SEEINSTRUCTIONS

. MAJOR	BIBLIOGRAPHICAL R	EFERENCES										•
Bu Base Bul Apr	lletin - Worldwi eline Results fi letin of the Ame il 1973).	de Variatio om Smithson rican Meteo	ons in nian C orolog	A bs ic	tmosphe ervatic al Soci	eric T ons (R Lety.	ransmis eprinte Vol. 54	sior d fi , No	n:1 :om 2. 4	4,		12,
Anna	als of the Astro	physical Ob	oserva	to	ry from	n Smit	hsonian	In	sti	tutior.	1	
						2.0.5	verstil	er. ::	1	linau.		
CEOGR	APHICAL DATA			r	1							
DEFINIT	ATITUDE AND LONGITUE	E COORDINATES	ERTY	O R	LA ⁻ DEFIN	TITUDE A	CENTER F	TUDE OINT TEN	COC OF ACR	A PROPE	S RTY	
CORNER	LATITUDE	LONGITU	DE			LATITUD	E		L	ONGITUD	E	
NW NE	Degrees Minutes Seconds ° , , , , ° , , ,	Degrees Minutes o ,	Seconds		Degrees 33 ∘	Minutes 48 '	Seconds 39 ''	Degi 113	rees } °	Minutes 20 '	Seconds 46 ″	
SE SW	0 1 11	0 ; 0 ;	н ^{ул} ул								• • •	
APPROX	IMATE ACREAGE OF NO	MINATED PROPE	RTY: 1	0			<u>(1511</u>	10/	1/2	<u>.</u>		
LIST AL	L STATES AND COUNTIE	S FOR PROPERT		RL	APPING ST	ATE OR	COUNTY B			2S	CODE	
CTATE.		<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>				Ē	DEC	.IVEL 171] 373	Teol		د
STATE:			CODE		COUNTY:	1	NATIO) DNA	<u>L</u>	0	CODE	r 7
51412.		·	CODE				REGIS	STEI		st.	CODE	7
STATE:			CODE	- '	COUNTY:		151	III	Y	/	CODE	-
FORM P	REPARED BY		1								4	Ċ
NAME AN Keni	neth S. White, (utdoor Recr	reatio	n	Planner	c		A	Ugu	:: 1st 10	, 1973	-
BUSINES	s ADDRESS: eau of Land Mana	gement						l				Ċ
STREET	AND NUMBER: 2 Federal Buildi	ng			r			P	нон (60)	2) 261	-3141	(
CITY OR Pho	TOWN: enix			1	STATE	Arizo	na 8502	5			code 04	
CERTIF	ICATION OF NOMINA	ION			N	ATIONA	L REGIST	ER V	ERI	FICATIO	N	
State Lia TY Ye No No	aison Officer recommen rs One Demil State Liaison Office	dation: MC Cuth or Signature) {		I hereby o National	certify th Register	at this pro	perty	is in		n the	
In compl nominate ing that days in	iance with Executive O this property to the Na the State Liaison Offic which to present the no	rder 11593, I he ational Register, er has been allow mination to the S	eby certify- wed 90 State Re-		Dirtor	Office of	Artifoology	and H	stor	ic Preserv	t ation	
view Boa mended I D Loca	ard and to evaluate its level of significance is al	significance. The National [e recom- State 75		Date	:	$/ N_1$	х <u>-</u> у л	لي م	\mathcal{A}	2	
Do party	Al Horrsonta fo Sigharur	Joretary Date	•		 Date	Keeper		ional 1	U Rogia 1971	stor 5	7	

GPO 938-449

ł

.*

STTT-10	$\mathbf{\lambda}$		
Form 10-300a	UNITED STATES DEPARTMENT OF THE INTERIOR	STATE	
(July 1969)	NATIONAL PARK SERVICE	Arizona	
NECE/VED	NATIONAL REGISTER OF HISTORIC PLACES	COUNTY	
Luc		Yuma	
~US 67 107-	INVENTORT - NUMINATION FORM	FOR NPS USE ONL	.Y
NAT 13/5	(Continuation Shoot)	ENTRY NUMBER	DATI
PEOINAL	(Continuation Sheet)	ACT 3 1975	
(Number all entri	96)		

8. Significance

-Harquahala Peak Observatory, Arizona, was established in 1920 by the Smithsonian Astrophysical Observatory with funds donated by Mr. John A. Roebling, in conjunction with the construction of a similar observatory on Mt. Montezuma, Chile. Dr. C.G. Abbott of the Smithsonian was responsible for moving the solar observatory to Harquahala Peak from Mt. Wilson, California. The peak was picked because of its remoteness from pollution, and for the region's high percentage of cloudless days.

Solar observations began on October 3, 1920, and for five years, measurements of the solar constant were taken at the site. The equipment used was a pyroheliometer, an early device used to measure the sun's energy output in ergs per second per square centimeter. The solar constant measurement, which has since been abandoned as a method, was used to determine the effect of the sun's energy output on the earth's climate. Although results concerning weather forecasting were inconclusive, the five year study, using data from both Harquahala Peak and Mt. Montezuma, indicated that the amount of energy reaching the earth from the sun was constant over the earth's surface.

In order to gain easier access and better atmospheric conditions, the Harquahala Peak Observatory was moved in 1925 from Arizona to Table Mountain, California. While in operation, Harquahala Peak was the only observatory of its kind in the United States.

Harquahala Peak represented an expanding national interest in Arizona as an astronomical laboratory. Arizona is invaluable to the astronomical observer because of the state's high percentage of cloudless days, a minimum amount of rainfall, and until recently, its lack of air and light pollution. Two observatories had been built prior to the Harquahala Peak station. Both are still in operation; the Lowell Observatory in Flagstaff, established in 1894 by Percival Lowell, and the Steward Observatory, built in 1916 by the University of Arizona at Tucson. Since that time, several other observatories have been built and maintained in Arizona. Among these are; the Northern Arizona University and U.S. Naval Observatories in Flagstaff, the National Center for Optical Astronomy, established in 1957 at Kitt Peak, and, most recently, the Smithsonian Astrophysical Observatory on Mt. Hopkins, south of Tucson.

Part of a chain of Smithsonian funded solar observatories which include Mt. Montezuma, Chile, Table Mountain, and Mt. Wilson, California, as well as several other world-wide astrophysical observatories, the Harquahala Peak station illustrates an early phase in the development of American astrophysics.

Harquahala Peak Observatory is of national significance for its contribution to the developing science of astrophysics.



	Form No. 10-301 Rev. 7-72	UNITED STATES DEPARTMENT OF NATIONAL PARK SERVI	THE INTERIC CE	DR	STATE	rizona		
		NATIONAL REGISTER OF HIST	ORICPL	ACES	COUNTY	luma		
		PROPERTY MAP FO	RM			FOR NPS USE	ONLY	
				,	ENT	RY NUMBER		DATE
S		(Type all entries - attach to or en	close with	map)		anr 9	1076	
z	1. NAME				1	<u> </u>	_ 67.9	
Ċ		Harouahala Peak Observator	v					
_	AND/OR HIS	TORIC:	0					
—	STREET AN	D NUM BER:						
U	<u>т</u> ,	5 N., R. 10 W., Sec. 6: NE	WWINWI.	G &S.R.	Μ.			
\supset	CITY OR TO	WN:	* * */					
2	Sw	of Wickenburg						
┣━	STATE:	<u> </u>	CODE	COUNTY:				CODE
	Ari	zona	04	1 Y	iuma		-	027
_	3. MAP REFEI	RENCE	L	1	/	(E)	FIT	,
Z	SOURCE:				18		\sim	2
	USGS	Harquahala Mtns, SE			$-\lambda \forall$			
ш	SCALE:]	24,000			lind	RECEIV	ED	1-1
	DATE: Ad	vance sheet, unedited			10.1			
ш	4. REQUIREME	INTS				Alle or	1070	
S	TO BE INCL	UDED ON ALL MAPS					1973	and from the
	1. Pro	perty broundaries where required.				NATIONA	1	-
	2. Nor	th arrow.				REGISTE	.ц. Р	1 miles
	3. Lat	itude and longitude reference.			Nati		۰ ۲	3/
					<u> </u>	Im	<u>.</u>	
							the second se	

.

•

* U.S. GOVERNMENT PRINTING OFFICE : 1973-729-148/ 1441 3-1

United States Department of the Interior National Park Service

National Register of Historic Places Inventory—Nomination Form

For NPS use only

received 8/15/86

date entered

nuation sheet	Item number	Page
Name Harquahala Peak Observatory		
State LaPaz County, AZ		
Nomination/Type of Review	/	Date/Signature
County change from Yuma	Theeper	Allow Syen 81
to LaPaz County - Approved	Attest	
	Keeper	
	Attest	
	Keeper	
	Attest	
	Keeper	
	Attest	
	Keeper	
	Attest	
	Keeper	
	Attest	
	Keeper	
	Attest	
	Keeper	· · · · · · · · · · · · · · · · · · ·
	Attest	······································
	Keeper	
	Attest	
	Kappa	·
	reeber	
	Attest	

United States Department of the Interior National Park Service

National Register of Historic Places Inventory—Nomination Form



Continuation sheet

Item number

Page

Correction to Harquahala Peak Observatory, listed 10/3/75

Previously listed as being located within Yuma County, this property is now located in La Paz County. The La Paz County code is 012.

This change is the result of the creation of La Paz County, which became a separate entity from Yuma County on January 1, 1983.

Signed

Donna J. Schober Arizona State Historic Preservation Officer