

THIRD-ORDER LEVELING
Sea Level Datum of 1929

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

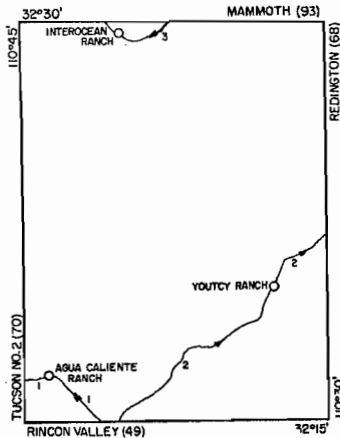
BELLOTA RANCH QUADRANGLE
ARIZONA 69
N3215-W11030/15

FILE COPY

Pima County

Edition of 6/1/58

Only the standard
tablets are listed
for lines run more
than 25 years
before the above
edition date



Feet

Interocean Ranch, 0.9 mi. N. of rd. Jct. to ranch
house; at top of ridge; 37 ft. NE. of rd.; on boulder;
chiseled square 4511.18

LINE 1.

FROM RINCON VALLEY QUADRANGLE (49) NORTHWEST ALONG
ROAD TO AGUA CALIENTE RANCH THENCE SOUTHWEST ALONG
ROAD INTO TUCSON NO. 2 QUADRANGLE (70) (by M.S. Bright,
1904; Book A5124)

Agua Caliente Ranch house, 400 ft. SE. of; at S. side
of sec. 20, T. 13 S., R. 16 E.; at edge of Agua
Caliente Spring; in granite outcrop; aluminum tablet
stamped "2728 NOGLS" (Not found, 1956) 2739.935

LINE 2.

FROM RINCON VALLEY QUADRANGLE (49) NORTHEAST ALONG
TANQUE VERDE-REDINGTON ROAD VIA YOUTCY RANCH INTO
REDINGTON QUADRANGLE (68) (by M.S. Bright, 1904;
Book A5124)

M. Martinez Ranch house, 3.2 mi. NE. of; 6.7 mi. E.
of intersection of Tanque Verde and Soldiers Trail
Roads; on top of W. spur of mountain; on W. edge of
rd.; 400 ft. N. of the most easterly of a series of
nine very sharp turns in the Tanque Verde-Redington
Road; in granite outcrop; aluminum tablet stamped
"3920 NOGLS" (Not found, 1957) 3932.216

Vail Ranch house, 1,000 ft. W. of; at top of ridge;
500 ft. S. of gate at entrance to ranch; 8 ft. W.
of rd.; in granite outcrop; aluminum tablet stamped
"4284 NOGLS" 4294.847

Vail Ranch, 2.2 mi. E. of; at top of divide; 35 ft.
NW. of rd.; in granite outcrop; aluminum tablet
stamped "4340 NOGLS" (Not found, 1956) Not Found '76 4351.993

Youtcy Ranch house, 600 ft. SW. of; at E. edge of
canyon; 8 ft. E. of rd.; in granite outcrop;
aluminum tablet stamped "3851 NOGLS" (Not found, 1956) Not Found '76 3863.354

Youtcy Ranch, 3.5 mi. NE. of; on ridge 20 ft. W. of
canyon; 3 ft. E. of rd.; standard iron post with
bronze cap stamped "3573 NOGLS" Destroyed '76 3585.297

LINE 3.

FROM MAMMOTH QUADRANGLE (93) SOUTHWEST ALONG ROAD TO
INTEROCEAN RANCH THENCE NORTHWEST ALONG MT. LEMON ROAD
BACK INTO MAMMOTH QUADRANGLE (93) (by M.S. Bright, 1904;
Book A5124 and G.W. Moore, 1946; Book V237a)

Interocean Ranch (formerly Kellogg Ranch), 2.9 mi. E.
of; 32 ft. SE. of rd.; 4 ft. lower than rd.; on
boulder; chiseled square New Desc. '76 4018.08

Interocean Ranch, 2.2 mi. E. of; in low gap in ridge;
at head of canyon leading E.; 8 ft. S. of rd.; 6 ft.
S. of main canyon; in granite outcrop; aluminum
tablet stamped "3995 NOGLS" (Not found, 1956) 4007.413

Reference mark, 35 ft. SW. of tablet; 10 ft. SE. of
rd.; on boulder; chiseled square 4007.96

Interocean Ranch, 1.5 mi. E. of; on W. side of saddle;
8 ft. NW. of rd.; on boulder; chiseled square 4212.31 Not Found '76

Interocean Ranch, 0.6 mi. SE. of; 380 ft. E. of sharp
bend in rd. on ridge; 19 ft. N. of rd.; in boulder;
standard tablet stamped "GWM 24 1946 4304" New Desc. '76 4303.548

Reference mark, 40 ft. SW. of tablet; 13 ft. S. of rd.;
on boulder; chiseled square 4301.95

Interocean Ranch, 0.6 mi. W. of; 230 ft. SE. of
intersection; 31 ft. NE. of ranch rd.; on boulder;
chiseled square New Desc. '76 4295.70

FILE COPY

BENCH MARK DESCRIPTIONS, FIELD SUMMARY

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Table with columns: Page, Quads., State, By, Date, Altitude by Field Book. Contains entries for BELLOTA RANCH (69) in Arizona, M.D. Cummins, 1976. Includes descriptions of mean field elevations and specific bench marks with elevations like 2699.136 and 2747.575.

BENCH MARK DESCRIPTIONS, FIELD SUMMARY

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

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Table with columns: Page, Quads., State, By, Date, Altitude by Field Book. Contains entries for BELLOTA RANCH (69) in Arizona, M.D. Cummins, 1976. Includes descriptions of mean field elevations and specific bench marks with elevations like 2828.882 and 3505.563.

Table with columns: Page, Quads., State, By, Date, Altitude by Field Book. Contains entries for BELLOTA RANCH (69) in Arizona, M.D. Cummins, 1976. Includes descriptions of mean field elevations and specific bench marks with elevations like 3978.241 and 4205.555.

FILE COPY

Page	Quads.	State	By	Altitude by
Bk. — Page	Miles	Adj.	Date	Field Book
		BELLOTA RANCH (69)	Arizona	M.D. Cummins, 1976
		Trunk Line	Mean Field Elevations	
		Book: PV 982		
b/65	17.73	BM "4284 NOGLS" (USGS) New Description by MDC: Saguaro National Monument Headquarters, 3.8 mi N. of, along Freeman Rd. from entrance rd. intersection at Saguaro National Monument Headquarters, thence 1.0 mi E. along East Speedway, thence 1.1 mi N. along Wentworth Rd., thence 10.35 mi E. and NE. along Redington Rd. and bladed rd. toward Redington; at top of summit; about 264 ft NE. of corral, 23 ft NW. of and about 3 ft higher than centerline of rd., 3 ft NE. of cairn; cemented in top center of boulder that projects 1 ft; standard tablet stamped "4284 NOGLS" (Previously described in USGS line 2)	4295.084	
		4284 adj. elev. 4294.847		
		4284 this run 4295.084		
		Difference = +0.237		
	18.54	Saguaro National Monument Headquarters, 3.8 mi N. of, along Freeman Rd. from entrance rd. intersection at Saguaro National Monument Headquarters, thence 1.0 mi E. along East Speedway, thence 1.1 mi N. along Wentworth Rd., thence 11.2 mi E. and NE. along Redington Rd. and bladed rd. toward Redington; at curve S., at dim T-rd. E.; 40 ft W. of centerline of rd., 26 ft S. of centerline of T-rd. E., 13 ft W. of fence line, 3 ft higher than rd. bed; cemented 6 ft NW. of southeast end of 20-ft long by 4-ft wide rock outcrop that is flush with ground on southeast end and 2 ft high on northwest end; standard tablet stamped "23 MDC 1976 4305"	4305.446	
	18.88	Saguaro National Monument Headquarters, 3.8 mi N. of, along Freeman Rd. from entrance rd. intersection at Saguaro National Monument Headquarters, thence 1.0 mi E. along East Speedway, thence 1.1 mi N. along Wentworth Rd., thence 11.55 mi E. and NE. along Redington Rd. and bladed rd. toward Redington; at sweeping curve E.; at 10-ft circular cement tank, at fence line, about 75 ft SW. of centerline and about 1.3 ft higher than surrounding ground; on top of northwest side of sidewall of cement tank at point where fence line crosses and bisects cement tank; chiseled square	4230.572	
		Page 5 of 9		
		14		6/29/76 d1

Page	Quads.	State	By	Altitude by
Bk. — Page	Miles	Adj.	Date	Field Book
		BELLOTA RANCH (69)	Arizona	M.D. Cummins, 1976
		Trunk Line	Mean Field Elevations	
		Book: PV 982		
d/10	22.67	Saguaro National Monument Headquarters, 3.8 mi N. of, along Freeman Rd. from entrance rd. intersection at Saguaro National Monument Headquarters, thence 1.0 mi E. along East Speedway, thence 1.1 mi N. along Wentworth Rd., thence 15.3 mi E. and NE. along Redington Rd. and bladed rd. toward Redington; 0.35 mi W. of Redington, along bladed rd. from Car Link Ranch area at Redington, thence 11.2 mi S. and SW. along bladed rd. toward Tucson; at major curve in rd. with T-rd. E.; 115 ft due N. of center of jet, 2 ft SW. of cairn, about 12 ft higher than jet; cemented in top of boulder that projects 0.3 ft; standard tablet stamped "27 MDC 1976 4226"	4226.108	
	23.65	Redington, 0.35 mi W. of, along bladed rd. from Car Link Ranch area, thence 10.2 mi S. and SW. along bladed rd. toward Tucson; at sharp curve; 52 ft SE. of centerline of rd. from center of curve, 15 ft SE. of cairn, about 12 ft higher than rd. bed; cemented in top of highest point of granite boulder that projects 5 ft above surrounding ground; standard tablet stamped "28 MDC 1976 3956"	3956.136	
	24.74	Redington, 0.35 mi W. of, along bladed rd. from Car Link Ranch area, thence 9.1 mi S. and SW. along bladed rd. toward Tucson; at Y-rd. entrance to Youcuy Camp; about 130 ft NW. of center of Y-rd. intersection, about 100 ft S. of center of cattleguard crossing rd., 58 ft W. of centerline of rd., 1 ft S. of cairn, about 8 ft higher than rd. bed; cemented in top center of granite outcrop that projects 0.1 ft; standard tablet stamped "29 MDC 1976 3888"	3887.646	
	24.78	UE: At cattleguard; centerline of rd.	3870.864	
	25.08	UE: Cattleguard; centerline of rd.	3892.820	
	25.70	PIETY AZIMUTH MARK (NGS): Redington, 0.35 mi W. of, along bladed rd. from Car Link Ranch area, thence 8.1 mi S. and SW. along bladed rd. toward Tucson; 0.15 mi S. of fence corner and sharp curve, 0.1 mi S. of BM "30 MDC 1976 4073"; 30 ft E. of centerline of rd., 26 ft W. of fence line, 3 ft N. of wooden 4 x 4-inch witness post, about 1 ft higher than rd. bed; cemented in top of rock outcrop that projects 1.0 ft; NGS azimuth mark disk stamped "PIETY 1947"	4029.113	
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Page	Quads.	State	By	Altitude by
Bk. — Page	Miles	Adj.	Date	Field Book
		BELLOTA RANCH (69)	Arizona	M.D. Cummins, 1976
		Trunk Line	Mean Field Elevations	
		Book: PV 982		
b/72	19.40	Saguaro National Monument Headquarters, 3.8 mi N. of, along Freeman Rd. from entrance rd. intersection at Saguaro National Monument Headquarters, thence 1.0 mi E. along East Speedway, thence 1.1 mi N. along Wentworth Rd., thence 12.1 mi E. and NE. along Redington Rd. and bladed rd. toward Redington; near crest of hill, at T-rd. S.; 110 ft E. of centerline of T-rd. S., 76 ft N. of centerline of rd., 6 ft N. of cairn, about 10 ft higher than rd. bed; cemented in top of lava outcrop that projects 2 ft higher than surrounding ground; standard tablet stamped "24 MDC 1976 4280"	4280.059	
	20.46	Saguaro National Monument Headquarters, 3.8 mi N. of, along Freeman Rd. from entrance rd. intersection at Saguaro National Monument Headquarters, thence 1.0 mi E. along East Speedway, thence 1.1 mi N. along Wentworth Rd., thence 13.15 mi E. and NE. along Redington Rd. and bladed rd. toward Redington; at Y-rd. SE. to S., near crest of hill; 225 ft NE. of center of Y-rd. jct., 87 ft E. of centerline of rd. from highest point of hill, 70 ft SE. of centerline of rd., 3 ft N. of cairn, about 12 ft higher than rd.; cemented in top of flat outcropping ledge that projects 1.0 ft; standard tablet stamped "25 MDC 1976 4354"	4354.490	
d/4	21.41	Saguaro National Monument Headquarters, 3.8 mi N. of, along Freeman Rd. from entrance rd. intersection at Saguaro National Monument Headquarters, thence 1.0 mi E. along East Speedway, thence 1.1 mi N. along Wentworth Rd., thence 14.1 mi E. and NE. along Redington Rd. and bladed rd. toward Redington; 0.1 mi W. of Coronada National Forest boundary sign, at top of hill, at T-rd. N., 120 ft N. of centerline of rd., 60 ft W. of centerline of T-rd. N., 10 ft higher than rd., 3 ft W. of cairn; cemented in top of outcrop that projects 2 ft; standard tablet stamped "26 MDC 1976 4274"	4273.909	
	21.90	UE: At cattleguard, at southwest end of south concrete headwall, 0.6 ft higher than cattleguard grate; chiseled square	4167.702	
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Page	Quads.	State	By	Altitude by
Bk. — Page	Miles	Adj.	Date	Field Book
		BELLOTA RANCH (69)	Arizona	M.D. Cummins, 1976
		Trunk Line	Mean Field Elevations	
		Book: PV 982		
d/26	25.80	Redington, 0.35 mi W. of, along bladed rd. from Car Link Ranch area, thence 8.0 mi S. and SW. along bladed rd. toward Tucson; near sharp curve S., near fence corner; about 245 ft SW. of fence corner and curve, on outcrop-covered side hill, 115 ft W. of and about 6 ft higher than centerline of rd., 1 ft SW. of cairn; cemented in top of flat ledge at southwest edge of outcrop that projects 1 ft on south side and is flush with ground on north side; standard tablet stamped "30 MDC 1976 4073"	4072.996	
	26.86	Redington, 0.35 mi W. of, along bladed rd. from Car Link Ranch area, thence 6.95 mi S. and SW. along bladed rd. toward Tucson; near top of summit, on flat ridge that runs N. from rd.; 120 ft N. of point where ridge that runs N. adjoins the northwest side of rd., 81 ft NW. of centerline of rd., 1 ft SE. of cairn, about level with rd. bed; set on 5/8-inch copper-coated rod encased in 6-inch drainpipe; standard tablet stamped "31 MDC 1976 3909"	3908.746	
	27.50	Redington, 0.35 mi W. of, along bladed rd. from Car Link Ranch area, thence 6.3 mi S. and SW. along bladed rd. toward Tucson; at major turn W. with T-rd. E., on side hill that sits between main rd. and track rd. turnout at curve; 175 ft N. of centerline of T-rd. E., 65 ft E. of centerline of rd., 4 ft SE. of cairn, about 7 ft higher than rd. bed; set on 5/8-inch copper-coated rod encased in 6-inch drainpipe; standard tablet stamped "32 MDC 1976 3843"	3843.114	
	28.58	Redington, 0.35 mi W. of, along bladed rd. from Car Link Ranch area, thence 5.2 mi S. and SW. along bladed rd. toward Tucson; just before sharp curve S., just after climb to flat; 61 ft NW. of northwest side of lone mesquite tree, 45 ft NW. of centerline of rd., 2 ft NW. of cairn; set on 5/8-inch copper-coated rod encased in 6-inch drainpipe; standard tablet stamped "33 MDC 1976 3689"	3688.580	
	29.33	Redington, 0.35 mi W. of, along bladed rd. from Car Link Ranch area, thence 4.45 mi S. and SW. along bladed rd. toward Tucson; at summit; 30 ft SE. of and about 2 ft higher than centerline of rd., 3 ft SE. of cairn; set on 5/8-inch copper-coated rod encased in 6-inch drainpipe; standard tablet stamped "34 MDC 1976 3562"	3562.328	
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FILE COPY

BENCH MARK DESCRIPTIONS, FIELD SUMMARY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
9-1128

Page	Quads.	State	By	Altitude by
3k.—Page	Miles	Adj.	Date	Field Book
	BELLOTA RANCH (69)	Arizona	M.D. Cummins, 1976	
	Trunk Line	Mean Field Elevations		
	Book: PV 982			
d/47	30.47	Redington, 0.35 mi W. of, along bladed rd. from Car Link Ranch area, thence 3.3 mi S. and SW. along bladed rd. toward Tucson; at top of summit; about 250 ft NE. along flat ridge from centerline of rd. from highest point of summit, at point overlooking 90° bend in wash when looking NW., in line with projected centerline of wash (NW.-SE.); 100 ft SE. of centerline of rd. along that projected centerline, on a flat, 2 ft NE. of cairn; set on 5/8-inch copper-coated rod encased in 6-inch drainpipe; standard tablet stamped "35 MDC 1976 3333"		3332.857
	31.39	Redington, 0.35 mi W. of, along bladed rd. from Car Link Ranch area, thence 2.4 mi S. and SW. along bladed rd. toward Tucson; on a flat, at curve; about 150 ft W. of largest one of several palo verde trees, 49 ft E. of centerline of rd., 3 ft E. of cairn; set on 5/8-inch copper-coated rod encased in 6-inch drainpipe; standard tablet stamped "36 MDC 1976 3216"		3215.702
	32.18	Redington, 0.35 mi W. of, along bladed rd. from Car Link Ranch area, thence 1.6 mi S. and SW. along bladed rd. toward Tucson; at fence line and cattleguard crossing the rd.; 28 ft SE. of centerline of rd. from center of cattleguard, 1 ft NE. of fence line, 1 ft SE. of RR. tie fencepost, at southeast end of pass through gate that is in fence just SE. of cattleguard, about level with rd. bed; set on 5/8-inch copper-coated rod encased in 6-inch drainpipe; standard tablet stamped "37 MDC 1976 3120"		3120.295
	32.89	Redington, 0.35 mi W. of, along bladed rd. from Car Link Ranch area, thence 0.9 mi S. along bladed rd. toward Tucson; at T-rd. SE.; 79 ft SE. of centerline of rd., 33 ft NE. of centerline of T-rd. SE., 2 ft SE. of cairn, about 1 ft lower than rd. bed; set on 5/8-inch copper-coated rod encased in 6-inch drainpipe; standard tablet stamped "38 MDC 1976 2917"		2916.844

FILE COPY

REPORT ON PERMANENT SURVEY MARK

AREA OFFICE

STATE Arizona COUNTY Pima QUADRANGLE Bellota Ranch NW (69)
QUOTE PRIMARY REFERENCE Interocean Ranch, 0.6 mi. SE. of;
(Direction and distance) Line 3

DESIGNATION { LISTED GWM 24
STAMPED GWM 24 1946 4304" TYPE OF MARK: BM XX TT _____ TRIANG. _____
CONDITION ESTABLISHED BY
Lat. _____' _____" Disturbed USGS USBR
Long. _____' _____" Destroyed USC&GS State GS
Elev. 4304.548 feet Not Found USNPS USNFS
USGLO (Other)
USBLM

REMARKS OR REVISED DESCRIPTION:

U Circle Ranch, 0.6 mi SE. of; 380 ft. E. of sharp bend in rd. on ridge, 19 ft N. of rd.; in boulder; standard tablet stamped "GWM 24 1946 4304."

SUBMITTED BY Douglas D. Smith
TITLE Carto-Tech
AGENCY USGS

DATE 1/76

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

GPO 16-54252-6

REPORT ON PERMANENT SURVEY MARK

AREA OFFICE

STATE Arizona COUNTY Pima QUADRANGLE Bellota Ranch NW (69)
QUOTE PRIMARY REFERENCE Interocean Ranch, 2.9 mi E. of;
(Direction and distance) line 3

DESIGNATION { LISTED Chiseled Square
STAMPED _____ TYPE OF MARK: BM SBM TT _____ TRIANG. _____
CONDITION ESTABLISHED BY
Lat. _____' _____" Disturbed USGS USBR
Long. _____' _____" Destroyed USC&GS State GS
Elev. 4018.08 feet Not Found USNPS USNFS
USGLO (Other)
USBLM

REMARKS OR REVISED DESCRIPTION:

U Circle Ranch (formerly Interocean Ranch; formerly Kellogg) 2.9 mi E. of; 32 ft SE. of rd.; 4 ft lower than rd.; on boulder; chiseled square.

SUBMITTED BY Douglas D. Smith
TITLE Carto-Tech
AGENCY USGS

DATE 1/76

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

GPO 16-54252-6

REPORT ON PERMANENT SURVEY MARK

AREA OFFICE

STATE Arizona COUNTY Pima QUADRANGLE Bellota Ranch NW (69)
QUOTE PRIMARY REFERENCE Interocean Ranch, 0.6 mi W. of;
(Direction and distance) line 3

DESIGNATION { LISTED 4295.70
STAMPED _____ TYPE OF MARK: BM SBM TT _____ TRIANG. _____
CONDITION ESTABLISHED BY
Lat. _____' _____" Disturbed USGS USBR
Long. _____' _____" Destroyed USC&GS State GS
Elev. 4295.70 feet Not Found USNPS USNFS
USGLO (Other)
USBLM

REMARKS OR REVISED DESCRIPTION:

U Circle Ranch, 0.6 mi W. of; 230 ft. SE. of intersection, 31 ft NE. of Ranch Rd.; on boulder; chiseled square.

SUBMITTED BY Douglas D. Smith
TITLE Carto-Tech
AGENCY USGS

DATE 1/76

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

GPO 16-54252-6

JAN 3 1976