

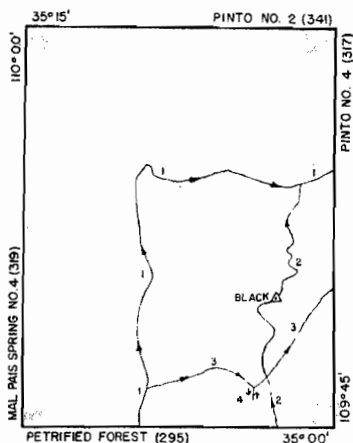
THIRD-ORDER LEVELING
Sea Level Datum of 1929

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PINTO NO. 3 QUADRANGLE
ARIZONA 318
N3500-W10945/15

FILE COPY

Apache and
Navajo Counties
Edition of 1/11/57



Feet

LINE 1.

FROM PETRIFIED FOREST QUADRANGLE (295) NORTH ALONG WEST BOUNDARY OF PETRIFIED FOREST NATIONAL MONUMENT TO A POINT 1.0 MILE NORTH OF PILOT ROCK, THENCE EAST ALONG NORTH BOUNDARY OF NATIONAL MONUMENT INTO THE PINTO NO. 4 QUADRANGLE (317) (by V. S. Seward, 1934; Book B5034)

New Desc. 74

T. 19 N., R. 23 E., near SW. Cor. Sec. 34; 3,000 ft. E. and 800 ft. N. of U. S. Highway 66 at point where it crosses Carrizo Wash; 800 ft. N. of jct. of Highway 66 and rd. to Double Track Junction; 400 ft. E. of point of mesa like hill; 10 ft. N. of rim; in sandstone ledge; standard tablet stamped "VWS 1 1934 5339"

5339.496

Reference mark, 40 ft. E. and 20 ft. S. of tablet; 4 ft. W. of N.-S. erosion cut; on sandstone ledge; chiseled square

5335.90

T. 19 N., R. 23 E., in SW 1/4 of SW 1/4 of Sec. 22; 2.0 mi. N. of U. S. Highway 66; 400 ft. W. of lone juniper tree at top of 50 ft. rock bluff; 300 ft. NW. of stream forks; 25 ft. W. of N. fork; on top of 5 ft. sandstone boulder inclined 45° on NE. side; chiseled square

5334.260

T. 19 N., R. 23 E., in NE 1/4 of SW 1/4 of Sec. 15; 3.0 mi. N. of U. S. Highway 66; about 1.5 mi. W. of Carrizo Wash; 300 ft. NW. of prominent mesa-topped hill; (about 50 ft. square) 8 ft. S. of cairn; at top of narrow ridge; in sandstone boulder; standard tablet stamped "VWS 2 1934 5533"

5533.483

Reference mark, 120 ft. NW. of tablet along knife-like ridge; on sandstone boulder; chiseled square

5535.96

T. 19 N., R. 23 E., in SW 1/4 of SW 1/4 of Sec. 10; 4.0 mi. N. of U. S. Highway 66; 250 ft. N. and 30 ft. W. of N. end of fence; (N. end of fence is about 70 ft. E. of head of steep rocky gulch) 6 ft. E. of rim of gulch; on sandstone ledge; chiseled square

5549.93

T. 19 N., R. 23 E., near center of NW 1/4 of Sec. 3; 5.0 mi. N. of U. S. Highway 66; 0.5 mi. S. of stream forks N.; (N. fork is 1,000 ft. E. of point where fence crosses W. fork) 0.3 mi. E. of 50 ft. square white mesa hill; 600 ft. S. and 200 ft. E. of small gray dome hill; 500 ft. S. of brown rocky hill extending 400 ft. from E. to W.; at head of small stream; 10 ft. W. of cairn; in conspicuous gray sandstone ledge 30 ft. wide and extending 70 ft. from SE. to NW.; standard tablet stamped "VWS 8 1934 5556"

5555.592

Reference mark, 50 ft. N. and 30 ft. W. of tablet; on sandstone ledge; chiseled square

5553.83

T. 20 N., R. 23 E., in NW 1/4 of NW 1/4 of Sec. 35; 6.2 mi. N. of U. S. Highway 66; about 1.0 mi. NE. of stream forks and up N. fork of stream; 100 ft. SE. of waterfall; 15 ft. SW. of end of fence; 6 ft. E. of cairn; on sandstone boulder; chiseled square

5533.71

T. 20 N., R. 23 E., near SW. Cor. Sec. 22; 2.5 mi. S. and 0.5 mi. W. of Douglas Triangulation Station; 8.0 mi. N. of U. S. Highway 66; 1.0 mi. S. of prominent stream; at center of narrow N.-S. valley; 300 ft. E. of isolated red hill; 15 ft. S. of stream; in sandstone ledge; standard tablet stamped "VWS 9 1934"

5596.132

Reference mark, 15 ft. E. and 15 ft. N. of tablet; on sandstone ledge (rock cairn built around mark); chiseled square

5595.93

T. 20 N., R. 23 E., in SW 1/4 of SE 1/4 of Sec. 15; 1.3 mi. S. and 0.5 mi. W. of Douglas Triangulation Station; 800 ft. E. of most westerly red hill on S. side of stream; 60 ft. S. and 60 ft. W. of small purple hill surrounded by small pieces of black lava rock; 6 ft. E. of stream; 4 ft. E. of 4 ft. rock bluff; on sandstone ledge; chiseled square

5561.23

T. 20 N., R. 23 E., in SE 1/4 of NE 1/4 of Sec. 10; 0.5 mi. W. of Douglas Triangulation Station; 400 ft. N. of rim of badlands; 100 ft. W. and 100 ft. N. of cairn; 20 ft. N. of small stream; in outcropping lava boulder; standard tablet stamped "VWS 10 1934 5855"

5854.828

Reference mark, 70 ft. E. and 50 ft. N. of tablet; 50 ft. N. of stream; on lava boulder; chiseled square

5861.10

T. 20 N., R. 23 E., in SE 1/4 of NW 1/4 of Sec. 2; 1.2 mi. N. and 0.02 mi. E. of Douglas Triangulation Station; 0.4 mi. E. of point at which fence enters badlands; 200 ft. W. of N. bend in stream; 15 ft. S. of stream; 10 ft. S. of fence; 4 ft. N. of cairn; in lava boulder; standard tablet stamped "VWS 11 1934 5704"

5704.116

Reference mark, 80 ft. W. of tablet; on lava boulder; chiseled square

5706.19

T. 20 N., R. 23 E., in SW 1/4 of SW 1/4 of Sec. 1; 1.2 mi. N. and 1.2 mi. E. of Douglas Triangulation Station; 1,000 ft. N. of fence; 500 ft. E. of three small red hills; (no others nearby) 5 ft. S. of cairn; on lava rock; chiseled square

5704.72

T. 20 N., R. 24 E., near SE. Cor. of Sec. 6; 1.0 mi. N. and 2.6 mi. E. of Douglas Triangulation Station; on line between lone juniper tree on top of S. end of Chinde Mesa and Douglas Triangulation Station; 0.3 mi. W. of divide; at S. bend in prominent stream; (first W. of divide) 150 ft. W. of 4 ft. conspicuous bluff on S. side of stream; 30 ft. S. of stream; 15 ft. N. and 15 ft. E. of cairn; in boulder; standard tablet stamped "VWS 12 1934 5733"

Not Found '72
5732.974

Reference mark, 25 ft. E. and 10 ft. S. of tablet; 20 ft. E. of cairn; on boulder; chiseled square

5733.14

T. 20 N., R. 24 E., in NE 1/4 of NW 1/4 of Sec. 8; 1.0 mi. N. and 3.5 mi. E. of Douglas Triangulation Station; 1.0 mi. SW. of lone juniper tree on top of S. end of Chinde Mesa; 0.3 mi. E. of divide; at point where first prominent stream leaves badlands on E. side; 70 ft. E. of stream; 8 ft. N. of cairn; on outcropping boulder; chiseled square

5657.90

T. 20 N., R. 24 E., near center of Sec. 9; 1.0 mi. N. and 4.6 mi. E. of Douglas Triangulation Station; about 1.0 mi. S. of Chinde Mesa; 1,200 ft. S. and 600 ft. W. of large red hill; (southernmost prominent hill connected to Chinde Mesa) 2,000 ft. N. and 200 ft. E. of prominent pointed top red hill; (southernmost large badland hill in this vicinity) at center of small valley; 100 ft. W. of stream forks 5 ft. N. and 5 ft. W. of cairn; in boulder; standard tablet stamped "VWS 13 1934 5648"

5648.247

Reference mark, 20 ft. N. and 50 ft. E. of tablet; 30 ft. W. of W. fork of stream; on boulder; chiseled square

5648.90

Painted Desert Inn, 5.5 mi. N. and 0.5 mi. E. of; 0.8 mi. N. and 5.5 mi. E. of Douglas Triangulation Station; about 0.8 mi. S. of top of E. end of Chinde Mesa; 250 ft. N. of center of three small red hills; 100 ft. SW. of dome shaped purple hill; 50 ft. SE. of small gray hill; 5 ft. N. of cairn; on boulder; chiseled square

5632.70

Painted Desert Inn, 5.6 mi. N. and 1.2 mi. E. of; 0.8 mi. N. and 6.0 mi. E. of Douglas Triangulation Station; 300 ft. S. of badlands; 250 ft. S. of head of stream; 7 ft. S. of cairn; in sandstone boulder; standard tablet stamped "VWS 14 1934 5639"

5638.982

Reference mark, 40 ft. N. and 10 ft. W. of tablet; on sandstone boulder; chiseled square

5639.72

FILE COPY

LINE 2.

FROM PETRIFIED FOREST (295) QUADRANGLE NORTH ALONG STATE HIGHWAY 63 AND ROAD VIA PAINTED DESERT INN TO A POINT 5.6 MILES NORTH AND 1.2 MILE EAST OF PAINTED DESERT INN (by V. S. Seward, 1934; Book B5035)

Adamana, 1.0 mi. E. and 1.5 mi. N. of RR. station; near center of Sec. 33; T. 19 N., R. 24 E.; 350 ft. E. of proposed rd.; 50 ft. E. of present rd.; 15 ft. W. of top of first hill N. of RR.; 3 ft. NW. of cairn; in 3 ft. sandstone boulder; standard tablet stamped "VS 3 1934 5483" **New Desc. '72** 5483.339

Reference mark, 40 ft. N. of tablet; 2 ft. NW. of 6 ft. sandstone boulder; on 3 ft. boulder; chiseled square 5481.22

Adamana, 1.0 mi. E. and 2.5 mi. N. of RR. station; 1.0 mi. N. of prominent hill E. of rd.; at top of second rise in rd. N. of same hill; 100 ft. E. of proposed rd.; on boulder; chiseled square 5557.86

Adamana, 1.2 mi. E. and 3.5 mi. N. of RR. station; 2.0 mi. S. of U. S. Highway 66; 2.0 mi. N. of prominent hill E. of rd.; at top of rise in rd.; 1,500 ft. N. of wide flat; 600 ft. S. of point where rd. is 300 ft. W. of rim; 100 ft. W. of proposed rd.; 40 ft. W. of present rd.; in boulder; standard tablet stamped "VS 4 1934 5609" **New Desc. '72** 5608.872

Reference mark, 50 ft. S. of tablet; on boulder; chiseled square 5609.55

Adamana, 1.4 mi. E. and 4.5 mi. N. of RR. station; 1.0 mi. S. of U. S. Highway 66; at top of divide; 80 ft. E. of proposed rd.; 80 ft. W. of present rd.; on boulder; chiseled square 5711.96

Painted Desert Inn, 1.5 mi. S. of; 1.6 mi. E. and 5.5 mi. N. of RR. station at Adamana; 55 ft. S. of present U. S. Highway 66; 90 ft. S. of new alignment of Highway 66; 60 ft. S. and 250 ft. W. of rd. crossing; in 3 by 2 ft. old concrete motor base; standard tablet stamped "VS 5 1934 5752" **New Desc. '72** 5752.177

Reference mark, 60 ft. W. of tablet; on old concrete motor base; bolt in chiseled square 5752.38

Painted Desert Inn, 1.0 mi. S. of; 0.6 mi. N. of U. S. Highway 66; 80 ft. S. of first rise in rd. N. of highway; 30 ft. W. of rd.; 10 ft. W. of fence; on boulder; chiseled square 5810.85

Black Triangulation Station (USGS); 0.6 mi. SW. of Painted Desert Inn; on W. one of two high knolls only a few hundred feet apart; on highest ground in vicinity; in rock; standard tablet stamped "BLACK 1933 5924" Lat.: 35°04'48.008" Long.: 109°47'49.423" **New Desc. '72** 5924.102

Reference mark 1, 14.3 ft. from Black Triangulation Station; in rock ledge; standard reference tablet stamped "NO 1" 5923.271

Reference mark 2, 32.3 ft. from Black Triangulation Station; in rock; standard reference tablet stamped "NO 2" 5923.769

Painted Desert Inn, 130 ft. N. and 100 ft. E. of NE. corner of; in SW $\frac{1}{4}$ Sec. 34; T. 20 N., R. 24 E.; 35 ft. S. and 10 ft. W. of lone juniper tree; 100 ft. S. of rim at Lore's Point; in black lava rock outcropping; standard tablet stamped "VS 6 1934 5826" **New Desc. '72** 5825.946

Reference mark, 140 ft. W. of tablet; 4 ft. W. of E. end of stone wall; on top of wall; chiseled square 5824.06

Painted Desert Inn, 0.6 mi. N. of; 550 ft. N. of rd. forks; (W. fork connects with trail from inn) 200 ft. N. of beginning of steep rocky stream; 150 ft. E. of rd.; 80 ft. NE. of cairn; on sandstone ledge overhanging W. side of stream; chiseled square 5522.61

Painted Desert Inn, 1.6 mi. N. and 0.5 mi. E. of; 400 ft. NE. of lone 200 ft. square desert hill; at point where rd. goes through desert hills; (pass is about 400 ft. wide and bench mark is equally distant from either side); 40 ft. W. of rd.; in 5 by 5 by 3 ft. lone sandstone boulder; standard tablet stamped "VS 7 1934 5494" **New Desc. '72** 5493.533

Reference mark, 200 ft. S. of tablet; at W. edge of desert hills; on top of 3 by 3 ft. sandstone boulder; chiseled square 5495.26

Painted Desert Inn, 2.8 mi. N. and 0.7 mi. E. of at point where rd. goes between two gray badland hills; 15 ft. W. of cairn; 9 ft. E. of rd.; in sandstone ledge; standard tablet stamped "VS 15 1934 5540" **New Desc. '72** 5540.036

Reference mark, 80 ft. S. and 20 ft. W. of tablet; at SE. edge of hill; on sandstone ledge; chiseled square 5541.75

T. 20 N., R. 24 E., in SW $\frac{1}{4}$ of NW $\frac{1}{4}$ of Sec. 22; 3.6 mi. N. and 0.7 mi. E. of Painted Desert Inn; 1,000 ft. E. of lone dead tree; 650 ft. N. of grayish badland hills; 15 ft. E. of rd.; 6 ft. W. of E. end of narrow sandstone ledge extending 60 ft. E.-W.; 2 ft. W. of cairn; on ledge; chiseled square 5579.17

T. 20 N., R. 24 E., near $\frac{1}{2}$ Cor between Sec. 15, 16; 71,500 ft. W. of water hole; 40 ft. N. of stream; 25 ft. W. of SW. end of westernmost of three badland hills; (W. hill 700 ft. SW. of center hill; the group isolated and extending NE.-SW.); 6 ft. W. of cairn; in sandstone boulder; standard tablet stamped "VS 16 1934 5573" 5572.716

Reference mark, 40 ft. N. and 15 ft. E. of tablet; on sandstone boulder; square painted around highest point 5577.15

T. 20 N., R. 24 E., in SE $\frac{1}{4}$ of SW $\frac{1}{4}$ of Sec. 10; 1,300 ft. NE. of stream forks; 100 ft. N. of bend in W. fork; 6 ft. E. of stream; 3 ft. N. of cairn; on sandstone boulder; chiseled square 5608.74

Painted Desert Inn, 5.6 mi. N. and 1.2 mi. E. of; standard tablet stamped "VS 14 1934 5639" (Described in Line 1) 5638.982

LINE 3.

FROM A POINT 2.0 MILES NORTH OF U. S. HIGHWAY 66, T. 19 N., R. 23 E. in SW $\frac{1}{4}$ OF SW $\frac{1}{4}$ OF SEC. 22, EAST ALONG SOUTH BOUNDARY OF PETRIFIED FOREST NATIONAL MONUMENT TO U. S. HIGHWAY 66, THENCE NORTHEAST ALONG HIGHWAY INTO PINTO NO. 4 (317) QUADRANGLE (by V. S. Seward, 1934; Book B5035)

T. 19 N., R. 23 E., SW $\frac{1}{4}$ of SW $\frac{1}{4}$ Sec. 22; 2.0 mi. N. of U. S. Highway 66; on 5 ft. sandstone boulder; chiseled square (Described in Line 1) 5334.260

T. 19 N., R. 23 E., in SW $\frac{1}{4}$ of SE $\frac{1}{4}$ of Sec. 22; 2.2 mi. N. of U. S. Highway 66; on N. side of Carrizo Wash; at W. end of prominent bend; 0.5 mi. E. of stream forks N.; (stream forks 500 ft. N. of windmill) 200 ft. S. and 200 ft. E. of lone juniper tree at top of rocky bluff; on E. point of 15-ft. sandstone boulder projecting 3 ft. over stream; chiseled square 5306.99

T. 19 N., R. 23 E., in SE $\frac{1}{4}$ of NE $\frac{1}{4}$ of Sec. 23; 1.8 mi. N. of U. S. Highway 66; 1,000 ft. SE. of bend in Carrizo Wash; about 0.6 mi. S. of sharp rock-capped hill on N. side of Carrizo Wash; 100 ft. N. of perpendicular bluff; 100 ft. E. and 40 ft. N. of gray castle-shaped badland hill; (50 ft. square with 40 ft. perpendicular sides, 50 ft. N. of main hill and separated by a prominent gap); on top of sandstone boulder 3 ft. above ground; chiseled square 5337.92

T. 19 N., Rs. 23 and 24 E., near SW. Cor. Sec. 18; on Navajo-Apache County line; 1.4 mi. N. of U. S. Highway 66; 230 ft. N. of angle in fence; 300 ft. E. of round red hill; 50 ft. S. of bottom of steep red hill; in 4 by 3 ft. sandstone boulder 2 ft. above ground; standard tablet stamped "VS 20 1934" 5412" 5412.235

Reference mark, 30 ft. S. and 15 ft. E. of tablet; on 3 by 2 ft. sandstone boulder 18 in. above ground; chiseled square 5410.97

Rice, 0.4 mi. N. and 0.5 mi. W. of; 300 ft. S. and 200 ft. W. of head of badland stream (most easterly stream head in this vicinity); 20 ft. E. of badland rim; 5 ft. S. of post; on boulder 5 in. above ground; chiseled square 5560.42

Rice, 0.5 mi. N. and 0.3 mi. E. of; 100 ft. N. and 20 ft. E. of box culvert sta. 111+50 on U. S. Highway 66; on sandstone post 6 in. above ground; standard tablet stamped "VS 21 1934 5584" **New Desc. '72** 5584.267

Reference mark, 100 ft. S. and 20 ft. W. of tablet; at box culvert sta. 111+50 on U. S. Highway 66; on center and top of NW. concrete rail; Arizona Highway Dept. standard tablet 5585.677

Painted Desert Park, 300 ft. E. of E. side of building; 130 ft. N. of U. S. Highway 66; 60 ft. NE. of NE. corner of zoo; 15 ft. S. of S. rim of Painted Desert; in sandstone post 6 in. above ground; standard tablet stamped "VS 22 1934 5814" **Destroyed '72** 5814.126

Reference mark, 400 ft. W. and 100 ft. N. of tablet; 65 ft. W. of SW. corner of building; 200 ft. N. of U. S. Highway 66; at edge of S. rim of Painted Desert; on 11 in. petrified log buried in ground; 6 in. above ground; chiseled square 5808.46

Painted Desert Park, 0.4 mi. N. and 0.8 mi. E. of; 600 ft. W. of curve in present U. S. Highway 66; at concrete culvert of new U. S. Highway 66; in center of top of S. abutment; Arizona Highway Dept. standard tablet **New Desc. '72** 5729.140

LINE 4.

FROM A POINT 0.5 MILE NORTH AND 0.3 MILE EAST OF RICE SOUTHWEST TO AIRWAY BEACON (Double run spur line by V. S. Seward, 1934; Book B5035)

Rice, 0.5 mi. N. and 0.3 mi. E. of; standard tablet stamped "VS 21 1934 5584" (Described in Line 3) 5584.267

Rice, about 500 ft. S. of new U. S. Highway 66; 20 ft. S. of present Highway 66; 12 ft. N. of entrance to store; in concrete foundation of gasoline pump 1 ft. E. of its W. end; chiseled square 5563.20

Rice, 0.2 mi. S. of; 100 ft. E. of rd.; at aerial beacon in center of 10 by 10 ft. concrete foundation; standard tablet stamped "VS 3 1933 5570" **New Desc. '72** 5569.580

REPORT ON PERMANENT SURVEY MARK

AREA OFFICE

STATE Arizona COUNTY Navajo QUADRANGLE Pinto #3 SW

QUOTE PRIMARY REFERENCE T. 19 N., R. 23 E.
 (Direction and distance)

DESIGNATION { LISTED BM VS 1 1934 5339
 STAMPED _____ TYPE OF MARK: BM X TT _____ TRIANG. _____

Lat. _____° _____' _____"	CONDITION	ESTABLISHED BY
Long. _____° _____' _____"	Disturbed <input type="checkbox"/>	USGS <input checked="" type="checkbox"/> USBR <input type="checkbox"/>
Elev. _____ feet	Destroyed <input type="checkbox"/>	USC&GS <input type="checkbox"/> State GS <input type="checkbox"/>
	Not Found <input type="checkbox"/>	USNPS <input type="checkbox"/> USNFS <input type="checkbox"/>
		USGLO <input type="checkbox"/> (Other) <input type="checkbox"/>
		USBLM <input type="checkbox"/>

REMARKS OR REVISED DESCRIPTION:

0.1 miles N. on the underpass road at the interchange leading to Adamana siding, (between the two lanes) to gate, at the gate turn sharply right onto a dirt road paralleling the west bound off ramp and travel for 0.1 miles, 400 feet E. of the point of a mesa like hill, 170 feet N. of the dirt road, 10 feet N. of the rim. A standard tablet stamped "VS 1 1934 5339" set in a sandstone outcrop.

SUBMITTED BY W. Kranzler
 TITLE Carto. Tech
 AGENCY US Geological Survey

DATE 1/18/74

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

16-54252-4

(OVER)

LINE # 3

REPORT ON PERMANENT SURVEY MARK

AREA OFFICE

STATE Arizona COUNTY Apache QUADRANGLE Pinto # 3 SE

QUOTE PRIMARY REFERENCE Toll gate Petrified Forest N.P. Headquarters, 2 mi. East of.
 (Direction and distance)

DESIGNATION { LISTED 57291140
 STAMPED 5729 TYPE OF MARK: BM X TT _____ TRIANG. _____

Lat. _____° _____' _____"	CONDITION	ESTABLISHED BY
Long. _____° _____' _____"	Disturbed <input type="checkbox"/>	USGS <input checked="" type="checkbox"/> USBR <input type="checkbox"/>
Elev. <u>5729.140</u> feet	Destroyed <input type="checkbox"/>	USC&GS <input type="checkbox"/> State GS <input type="checkbox"/>
	Not Found <input type="checkbox"/>	USNPS <input type="checkbox"/> USNFS <input type="checkbox"/>
	New Description <input type="checkbox"/>	USGLO <input type="checkbox"/> (Other) <input type="checkbox"/>
		USBLM <input type="checkbox"/>
		AHD <input type="checkbox"/>

REMARKS OR REVISED DESCRIPTION:

From the toll gate at Petrified Forest N.P. Headquarters continue E. on park road 0.4 mi. to junc. of old route US Highway 66, now a service road. Go E. on service road for 1.6 mi. to concrete culvert and BM. BM is a standard AHD tablet in center of top of S. abutment.

SUBMITTED BY A.C. Stephens
 TITLE Cart Tech
 AGENCY USGS

DATE 4-4-72

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

16-54252-4

(OVER)

Please prepare in triplicate and send to nearest (or indicated) address shown on reverse side.

Please prepare in triplicate and send to nearest (or indicated) address shown on reverse side.

REPORT ON PERMANENT SURVEY MARK

AREA OFFICE

STATE Arizona COUNTY Apache QUADRANGLE Pinto # 3 SE
QUOTE PRIMARY REFERENCE Petrified Forest N.P. road overpass of I-40 Highway, 1.0 mi. W. of
(Direction and distance)

DESIGNATION { LISTED VS 21 1934 5584
STAMPED Same TYPE OF MARK: BM X TT _____ TRIANG. _____

Lat. _____ ° _____ ' _____ " CONDITION
Disturbed USGS USBR
Long. _____ ° _____ ' _____ " Destroyed USC&GS State GS
Elev. 5584.267 feet Not Found USNPS USNFS
New Description USGLO (Other)
USBLM

REMARKS OR REVISED DESCRIPTION:
From the Petrified Forest road overpass of I-40 Highway go N. on park road 0.25 to junc. with old US 66 highway. Walk W. on old highway (closed to auto travel) 1.0 mi. to park boundary fence. BM is 47 ft N. of fence and 100 ft NW of old road at fence crossing. A standard tablet on sandstone post projecting 6 in. stamped VS 21 1934 5584

SUBMITTED BY A.C. Stephens DATE 6-6-72
TITLE Cart Tech
AGENCY USGS

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

Please prepare in triplicate and send to nearest (or indicated) address shown on reverse side.

Line # 4 PINTO # 3 SE Navajo Project

REPORT ON PERMANENT SURVEY MARK

AREA OFFICE

STATE Arizona COUNTY Apache QUADRANGLE Pinto # 3 SE
QUOTE PRIMARY REFERENCE Petrified Forest National Park, overpass to hqutrs, 2mi. SW of, along I-40 highway
(Direction and distance)

DESIGNATION { LISTED VS 3 1933 5570
STAMPED Same TYPE OF MARK: BM X TT _____ TRIANG. _____

Lat. _____ ° _____ ' _____ " CONDITION
Disturbed USGS USBR
Long. _____ ° _____ ' _____ " Destroyed USC&GS State GS
Elev. _____ feet Not Found USNPS USNFS
New Description USGLO (Other)
USBLM

REMARKS OR REVISED DESCRIPTION:
From the ^{W.E.S.} overpass to Petrified Forest National Park drive southwest along ^(South of Hwy) I-40 highway for 2.5 miles to graded dirt road south. Drive south on dirt road 0.2 miles. BM is 100 feet east of road, in the center of a 10 X 10 foot concrete foundation which formerly was the base of an aerial beacon: A standard tablet stamped VS 3 1933 5570. Addr: 750' N. of USGS BM 10347.

SUBMITTED BY A.C. Stephens DATE Jan. 31, 1974
TITLE Cart Tech
AGENCY U.S. Geological Survey

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

Please prepare in triplicate and send to nearest (or indicated) address shown on reverse side.

LINE # 2

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FORM 9-1165
(Rev. 3-60)

REPORT ON PERMANENT SURVEY MARK

AREA OFFICE

STATE Arizona COUNTY Apache QUADRANGLE Pinto # 3 SE
QUOTE PRIMARY REFERENCE Toll gate, Petrified Forest N.P. Headquarters, 1.2 Mi. N.of.
(Direction and distance)

Please prepare in triplicate and send to nearest address shown on reverse side.

DESIGNATION { LISTED VS 7 1934 5494
STAMPED Same TYPE OF MARK: BM X TT _____ TRIANG. _____

Lat. _____ ° _____ ' _____ " CONDITION Disturbed ESTABLISHED BY USGS USBR
Long. _____ ° _____ ' _____ " Destroyed USC&GS State GS
Elev. 5493.533 feet Not Found USNPS USNFS
New Description USGLO { _____
USBLM } (Other)

REMARKS OR REVISED DESCRIPTION:

From the toll gate at Petrified Forest N.P.Headquarters go N. on park road for 1.5 Mi. to Kachina Point, lookout area. From here walk down ~~break~~ and desert floor north 1.2 Mi. and ~~to~~ 0.5 Mi. to a lone desert 200 ft. square hill. BM is 400 ft. NE of hill in a 5 X 5 X 3 lone sandstone boulder; A standard tablet stamped VS 7 1934 5494 *350' NW of headquarters N.P. 1.2 mi. NW of Kach.*

SUBMITTED BY A.C.Stephens
TITLE Cart Tech
AGENCY USGS

DATE 4-4-72

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

16-54252-4

(OVER)

LINE # 2

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FORM 9-1165
(Rev. 3-60)

REPORT ON PERMANENT SURVEY MARK

AREA OFFICE

STATE Arizona COUNTY Apache QUADRANGLE Pinto # 3 SE
QUOTE PRIMARY REFERENCE Toll gate, Petrified Forest N.P. Headquarters, 2 mi. N.of.
(Direction and distance)

Please prepare in triplicate and send to nearest address shown on reverse side.

DESIGNATION { LISTED VS 15 1934 5540
STAMPED Same TYPE OF MARK: BM X TT _____ TRIANG. _____

Lat. _____ ° _____ ' _____ " CONDITION Disturbed ESTABLISHED BY USGS USBR
Long. _____ ° _____ ' _____ " Destroyed USC&GS State GS
Elev. 5540.036 feet Not Found USNPS USNFS
New Description USGLO { _____
USBLM } (Other)

REMARKS OR REVISED DESCRIPTION:

From the toll gate at Petrified Forest N.P.Headquarters go north on park road for 1.5 mi. to Kachina Point, lookout area. From here walk down break and desert floor for 2 mi. due north. BM is 0.5 mi. W. of Lithodendron Wash and between two gray badland hills. A standard tablet in sandstone ledge 15 ft.S. and level with saddle between the two hills.

SUBMITTED BY A.C.Stephens
TITLE Cart Tech
AGENCY USGS

DATE 4-5-72

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

16-54252-4

(OVER)

ARIZONA 318

REPORT ON PERMANENT SURVEY MARK

AREA OFFICE

STATE Arizona COUNTY Apache QUADRANGLE Pinto # 3 SE
QUOTE PRIMARY REFERENCE Toll gate Petrified Forest N.P. Headquarters, 0.5 Mi. W. of.
(Direction and distance)

DESIGNATION { LISTED VS 5 1934 5752
STAMPED Same TYPE OF MARK: BM X TT _____ TRIANG. _____

Lat. _____ ° _____ ' _____ "	CONDITION	ESTABLISHED BY		
Long. _____ ° _____ ' _____ "	Disturbed <input type="checkbox"/>	USGS <input checked="" type="checkbox"/>	USBR <input type="checkbox"/>	
Elev. <u>5752.177</u> feet	Destroyed <input type="checkbox"/>	USC&GS <input type="checkbox"/>	State GS <input type="checkbox"/>	
	Not Found <input type="checkbox"/>	USNPS <input type="checkbox"/>	USNFS <input type="checkbox"/>	
	New Description	USGLO <input type="checkbox"/>	(Other) <input type="checkbox"/>	
		USBLM <input type="checkbox"/>		

REMARKS OR REVISED DESCRIPTION:

Toll gate , Petrified Forest N.P.Headquarters, drive 0.4 Mi. E. on park road to junction with old US Highway 66. Walk W.on old road (closed to travel) 1.0 Mi.BM is 90 ft. S . and 250 ft. W. of old road crossing in a 3 by 2 ft. concrete slab. A standard tablet stamped VS51934 5752

SUBMITTED BY ACStephens
TITLE Cart Tech
AGENCY USGS

DATE 4-4-72

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

REPORT ON PERMANENT SURVEY MARK

AREA OFFICE

STATE Arizona COUNTY Apache QUADRANGLE Pinto # 3 SE
QUOTE PRIMARY REFERENCE Toll gate, Petrified Forest N.P. Headquarters, 1.5 Mi. N. of
(Direction and distance)

DESIGNATION { LISTED VS 6 1934 5826
STAMPED Same TYPE OF MARK: BM X TT _____ TRIANG. _____

Lat. _____ ° _____ ' _____ "	CONDITION	ESTABLISHED BY		
Long. _____ ° _____ ' _____ "	Disturbed <input type="checkbox"/>	USGS <input checked="" type="checkbox"/>	USBR <input type="checkbox"/>	
Elev. <u>5825.946</u> feet	Destroyed <input type="checkbox"/>	USC&GS <input type="checkbox"/>	State GS <input type="checkbox"/>	
	Not Found <input type="checkbox"/>	USNPS <input type="checkbox"/>	USNFS <input type="checkbox"/>	
	New Description	USGLO <input type="checkbox"/>	(Other) <input type="checkbox"/>	
		USBLM <input type="checkbox"/>		

REMARKS OR REVISED DESCRIPTION:

From the toll gate at Petrified Forest N.P.Headquarters go N. on park road 1.5 Mi. to Kachina Point, walk 100 yds. along "lookout Point" trail. BM is 50 ft. S. of end of trail at lookout point and 5 ft E. of trail in black lava rock outcropping. A standard tablet stamped VS 6 1934 5826

SUBMITTED BY A.C.Stephens
TITLE Cart Tech
AGENCY USGS

DATE 4-4-72

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

ARIZONA 318

Please prepare in triplicate and send to nearest (or indicated) address shown on reverse side.

Please prepare in triplicate and send to nearest (or indicated) address shown on reverse side.

REPORT ON PERMANENT SURVEY MARK

AREA OFFICE

STATE Arizona COUNTY Apache QUADRANGLE Pinto # 3 SE
QUOTE PRIMARY REFERENCE Petrified Forest N.P. overpass of I-40 Highway, 3.1 mi. S. of.
(Direction and distance)

DESIGNATION { LISTED VS 3 1934 5483
STAMPED Same TYPE OF MARK: BM TT TRIANG.

Lat. _____ ° _____ ' _____ "	CONDITION	ESTABLISHED BY
Long. _____ ° _____ ' _____ "	Disturbed <input type="checkbox"/>	USGS <input checked="" type="checkbox"/> USBR <input type="checkbox"/>
Elev. <u>5483.339</u> feet	Destroyed <input type="checkbox"/>	USC&GS <input type="checkbox"/> State GS <input type="checkbox"/>
	Not Found <input type="checkbox"/>	USNPS <input type="checkbox"/> USNFS <input type="checkbox"/>
	New Description <input type="checkbox"/>	USGLO <input type="checkbox"/> (Other) <input type="checkbox"/>
		USBLM <input type="checkbox"/>

REMARKS OR REVISED DESCRIPTION:

From the Petrified Forest N.P. road overpass of I-40 Highway go S. on park road 3.1 mi. to the first hill N. of RR. BM is on the W. slope of hill, 260 ft. E. of road in a 3 ft boulder; A standard tablet stamped VS 3 1934 5483

SUBMITTED BY A.C. Stephens
TITLE Cart Tech
AGENCY USGS

DATE 4-4-72

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

REPORT ON PERMANENT SURVEY MARK

AREA OFFICE

STATE Arizona COUNTY Apache QUADRANGLE Pinto # 3 SE
QUOTE PRIMARY REFERENCE Petrified Forest N.P. road overpass of I-40 Highway, 1.2 Mi.
(Direction and distance) (S. of.)

DESIGNATION { LISTED VS 4 1934 5609
STAMPED Same TYPE OF MARK: BM TT TRIANG.

Lat. _____ ° _____ ' _____ "	CONDITION	ESTABLISHED BY
Long. _____ ° _____ ' _____ "	Disturbed <input type="checkbox"/>	USGS <input checked="" type="checkbox"/> USBR <input type="checkbox"/>
Elev. <u>5608.972</u> feet	Destroyed <input type="checkbox"/>	USC&GS <input type="checkbox"/> State GS <input type="checkbox"/>
	Not Found <input type="checkbox"/>	USNPS <input type="checkbox"/> USNFS <input type="checkbox"/>
	New Description <input type="checkbox"/>	USGLO <input type="checkbox"/> (Other) <input type="checkbox"/>
		USBLM <input type="checkbox"/>

REMARKS OR REVISED DESCRIPTION:

From Petrified Forest N.P. road overpass of I-40 Highway go S. along park road 1.2 Mi. BM is on a high flat mesa ¹⁵⁰ 500 ft. E. of road and 100 ft W. of an old abandoned road. A standard tablet set in boulder projecting 0.5 ft stamped VS 4 1934 5609

SUBMITTED BY A.C. Stephens
TITLE Cart Tech
AGENCY USGS

DATE 4-5-72

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

Please prepare in triplicate and send to nearest (or indicated) address shown on reverse side.

Please prepare in triplicate and send to nearest (or indicated) address shown on reverse side.

BENCH MARK DESCRIPTIONS, FIELD SUMMARY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
9-1128

Page

Quads.

State

By

Bk.—Page

Miles

Adj.

Date

Altitude by
Field Book

PINTO NO. 3 (318) Arizona J.D. Crossen, 1976

Third Order Field Elevations

Book: PV 972

Latitude 35°00' Longitude 109°45'

(5) FROM THE NORTH EDGE OF PETRIFIED FOREST QUADRANGLE (295) NORTH TO A POINT ABOUT 4 MILES NORTH OF ADAMANA

d/17

30.11 BM "T 347 1959" New Description by JDC: Adamana (siding on AT & SF RR.) from south end of graded rd. on west side of underground propane storage area, ~~2.4~~ ^{1.4} mi N. at south end of curve; 48 ft E. of and 3.5 ft higher than centerline of rd., 3.0 ft NW. of power pole; set in concrete post projecting 0.4 ft above ground; standard NGS tablet stamped "T 347 1959" (NGS Quad 35 109 3, line 103) 5412.966

T 347 by NGS 5413.050
T 347 this run 5412.966
Closure = -0.084

31.13 BM "S 347 1959" New Description by JDC: Adamana (siding on AT & SF RR.) from south end of graded rd. (N.) on west side of propane underground storage area, ~~2.4~~ ^{2.4} mi N. along graded rd.; at north end of curve; 63 ft E. of and 2.5 ft higher than centerline of rd., 2.3 ft NW. of power pole; set in concrete post level with ground; standard tablet stamped "S 347 1959" (NGS Quad 35 109 3, line 103) 5494.284

S 347 by NGS 5494.382
S 347 this run 5494.284
Closure = -0.098

FILE COPY