



GEOLOGY OF NORTHWEST QUARTER, CORRALITOS RANCH QUADRANGLE, NEW MEXICO

by Russell E. Clemons, 1976

SCALE 1:24,000

SHORTY SWOPE TANK SECTION
Westward from north of line between sec. 31, T. 21 S., R. 3 W. and sec. 6, T. 22 S., R. 3 W. to top of hill. Color code (in parentheses) from soil color charts by Munsell Color Co., Inc.

Unit	Description	Thickness ft.
Bell Top Formation (total thickness)		
Tuff 4 member (total thickness)		
9	Vitre-crystal ash-flow tuff, pale-red-purple (SRP 6/2); dense; abundant, flattened brown pumice fragments and reddish-brown rock fragments; sandine and plagioclase crystals; cliff former; top of hill	30
Palm Park Formation (total thickness)		
8	Muddy, sandy, cobble conglomerate; well-rounded andesite-latte clasts; cross bedded channel fill; slope former	35
7	Sandy mudstone; very light gray (N8); tuffaceous; granule lenses; slope former	87
6	Tuff, white (N9), pumiceous; sand-size crystal fragments and sand-size to granule-size dark rock fragments; slope former	58
5	Sandy, pumiceous mudstone, pale-yellowish-gray (SY 5/1); pumice fragments to 2.5 cm abundant; slope former	11

TAJANIO PINTO TANK SECTION
Northwestward from center line sec. 25, 30, T. 21 S., R. 4 W. to top of hill in SEW sec. 23, T. 21 S., R. 4 W. Color code (in parentheses) from soil color charts by Munsell Color Co., Inc.

Unit	Description	Thickness ft.
Uvas Basaltic Andesite (total thickness)		
19	Basaltic andesite, dark-gray (N3); dense, brecciated, vesicular zone at base and vesicular top; ledge former	40

Bell Top Formation (total thickness)

40	Fine sandstone, light-gray (N7); slightly conglomeratic at base; slope former	40
35	Cobble conglomerate; coarse sand to mud matrix; well-rounded andesite-latte clasts to boulder size; slope former	35
70	Mostly covered, tuffaceous mudstone, grayish-pink (SR8/2); poorly bedded; slope former	70
203	1 Conglomeratic mudstone, grayish-pink (SR8/2); tuffaceous; to cobble size well-rounded clasts of andesite-latte; medium-bedded; slope former; base not exposed	203
64	15 Fine sandstone, yellowish-gray (SY7/2); same as unit 15	64
180	15 Mostly covered, fine sandstone, pale-yellowish-brown (10YR8/2); slightly micaceous and pumiceous; massive-bedded; slope former	180
140	14 Fine sandstone, yellowish-gray (SY7/2); same as unit 15	140
70	13 Mostly covered, pumiceous tuff, very pale orange (10YR8/2); abundant white pumice clasts to 3.5 cm; crystals of quartz, sandine, plagioclase, and biotite; slope former	70
22	12 Vitre-crystal ash-flow tuff, grayish-pink (SR7/2); slope former	22
30	Tuff 6 member (total thickness)	30
345	12 Vitre-crystal ash-flow tuff, grayish-pink (SR7/2); dense; pinkish-gray (5YR8/1) pumice fragments to 3 cm; few grayish-red (SR4/2) rock fragments to 1 cm; plagioclase, sandine, quartz, and biotite crystals; cliff former	345
30	Middle sedimentary member (total thickness)	30

40	Ash, white, friable, porous; minor biotite flakes and angular crystal fragments; massive; poorly bedded; slope former	40
35	10 Fine sandstone and mudstone, yellowish-gray (SY8/1) to pale-yellowish-brown (10YR6/2); poorly bedded at base, grading upward into thin beds, and shaly parting at top; slope former	35
50	9 Tuffaceous very fine sandstone, grayish-orange-pink (10R8/2); friable, cross-bedded, shaly parting; slope former	50
60	8 Very fine sandstone, yellowish-gray (SY8/1); massive-bedded to poorly bedded; slope former	60
15	7 Mudstone and muddy fine sandstone, yellowish-gray (SY8/1); slightly friable, thin-bedded; slope former	15
65	6 Sandy pebbly conglomerate, pale-yellowish-brown (10YR5/2); few cobbles; cross-bedded channel fill; slope former	65
5	5 Muddy sandstone, grayish-orange-pink (10R8/2); tuffaceous fine sandstone at base, gradational upward to muddy coarse sandstone with granule conglomerate lenses; slightly friable; thin-bedded to medium-bedded; slope former	5
50	4 Mostly covered, white (N9) tuffaceous beds with pumice fragments; some ash with biotite flakes and angular crystal fragments; slope former	50
65	Tuff 5 member (total thickness)	65
40	3 Crystalline ash-flow tuff, pale-red-purple (SRP/2); dense; abundant, slightly flattened, white pumice fragments in upper part; sandine, plagioclase,	40

40	quartz, and biotite crystals; forms northwest-dipping cusets	40
110	Tuff 4 member (total thickness)	110
2	2 Vitre-crystal ash-flow tuff, pale-red-purple (SRP6/2); dense; abundant, flattened, brown pumice fragments; sandine and plagioclase crystals; cliff former	2
60	1 Vitre-crystal ash-flow tuff, moderate-yellowish-brown (10YR5/4); porous; light-brown pumice fragments and dark-brown rock fragments; slope former; dips 5 degrees northwest; base not exposed, but rests on Palm Park Formation across the valley to southeast	60

Continued from Sheet 2.

Normal fault, dashed where inferred or approximately located, dotted where concealed. Arrows show direction of dip. Ball on downthrown side.

Landfill block, barbs on hanging wall.

Strike and dip of beds.

Line of measured section.

APPROXIMATE MEAN DECLINATION, 1975