



CORRELATION OF MAP UNITS

Qal	Qc	Qm	Qp	Qr	Qs	Qv	Qw	Qx	Qy	Qz	Qaa	Qab	Qac	Qad	Qae	Qaf	Qag	Qah	Qai	Qaj	Qak	Qal	Qam	Qan	Qao	Qap	Qaq	Qar	Qas	Qat	Qau	Qav	Qaw	Qax	Qay	Qaz	Qba	Qbb	Qbc	Qbd	Qbe	Qbf	Qbg	Qbh	Qbi	Qbj	Qbk	Qbl	Qbm	Qbn	Qbo	Qbp	Qbq	Qbr	Qbs	Qbt	Qbu	Qbv	Qbw	Qbx	Qby	Qbz	Qca	Qcb	Qcc	Qcd	Qce	Qcf	Qcg	Qch	Qci	Qcj	Qck	Qcl	Qcm	Qcn	Qco	Qcp	Qcq	Qcr	Qcs	Qct	Qcu	Qcv	Qcw	Qcx	Qcy	Qcz	Qda	Qdb	Qdc	Qdd	Qde	Qdf	Qdg	Qdh	Qdi	Qdj	Qdk	Qdl	Qdm	Qdn	Qdo	Qdp	Qdq	Qdr	Qds	Qdt	Qdu	Qdv	Qdw	Qdx	Qdy	Qdz	Qea	Qeb	Qec	Qed	Qee	Qef	Qeg	Qeh	Qei	Qej	Qek	Qel	Qem	Qen	Qeo	Qep	Qeq	Qer	Qes	Qet	Qeu	Qev	Qew	Qex	Qey	Qez	Qfa	Qfb	Qfc	Qfd	Qfe	Qff	Qfg	Qfh	Qfi	Qfj	Qfk	Qfl	Qfm	Qfn	Qfo	Qfp	Qfq	Qfr	Qfs	Qft	Qfu	Qfv	Qfw	Qfx	Qfy	Qfz	Qga	Qgb	Qgc	Qgd	Qge	Qgf	Qgg	Qgh	Qgi	Qgj	Qgk	Qgl	Qgm	Qgn	Qgo	Qgp	Qgq	Qgr	Qgs	Qgt	Qgu	Qgv	Qgw	Qgx	Qgy	Qgz	Qha	Qhb	Qhc	Qhd	Qhe	Qhf	Qhg	Qhh	Qhi	Qhj	Qhk	Qhl	Qhm	Qhn	Qho	Qhp	Qhq	Qhr	Qhs	Qht	Qhu	Qhv	Qhw	Qhx	Qhy	Qhz	Qia	Qib	Qic	Qid	Qie	Qif	Qig	Qih	Qii	Qij	Qik	Qil	Qim	Qin	Qio	Qip	Qiq	Qir	Qis	Qit	Qiu	Qiv	Qiw	Qix	Qiy	Qiz	Qja	Qjb	Qjc	Qjd	Qje	Qjf	Qjg	Qjh	Qji	Qjj	Qjk	Qjl	Qjm	Qjn	Qjo	Qjp	Qjq	Qjr	Qjs	Qjt	Qju	Qjv	Qjw	Qjx	Qjy	Qjz	Qka	Qkb	Qkc	Qkd	Qke	Qkf	Qkg	Qkh	Qki	Qkj	Qkl	Qkm	Qkn	Qko	Qkp	Qkq	Qkr	Qks	Qkt	Qku	Qkv	Qkw	Qkx	Qky	Qkz	Qla	Qlb	Qlc	Qld	Qle	Qlf	Qlg	Qlh	Qli	Qlj	Qlk	Qll	Qlm	Qln	Qlo	Qlp	Qlq	Qlr	Qls	Qlt	Qlu	Qlv	Qlw	Qlx	Qly	Qlz	Qma	Qmb	Qmc	Qmd	Qme	Qmf	Qmg	Qmh	Qmi	Qmj	Qmk	Qml	Qmm	Qmn	Qmo	Qmp	Qmq	Qmr	Qms	Qmt	Qmu	Qmv	Qmw	Qmx	Qmy	Qmz	Qna	Qnb	Qnc	Qnd	Qne	Qnf	Qng	Qnh	Qni	Qnj	Qnk	Qnl	Qnm	Qnn	Qno	Qnp	Qnq	Qnr	Qns	Qnt	Qnu	Qnv	Qnw	Qnx	Qny	Qnz	Qoa	Qob	Qoc	Qod	Qoe	Qof	Qog	Qoh	Qoi	Qoj	Qok	Qol	Qom	Qon	Qoo	Qop	Qoq	Qor	Qos	Qot	Qou	Qov	Qow	Qox	Qoy	Qoz	Qpa	Qpb	Qpc	Qpd	Qpe	Qpf	Qpg	Qph	Qpi	Qpj	Qpk	Qpl	Qpm	Qpn	Qpo	Qpp	Qpq	Qpr	Qps	Qpt	Qpu	Qpv	Qpw	Qpx	Qpy	Qpz	Qqa	Qqb	Qqc	Qqd	Qqe	Qqf	Qqg	Qqh	Qqi	Qqj	Qqk	Qql	Qqm	Qqn	Qqo	Qqp	Qqq	Qqr	Qqs	Qqt	Qqu	Qqv	Qqw	Qqx	Qqy	Qqz	Qra	Qrb	Qrc	Qrd	Qre	Qrf	Qrg	Qrh	Qri	Qrj	Qrk	Qrl	Qrm	Qrn	Qro	Qrp	Qrq	Qrr	Qrs	Qrt	Qru	Qrv	Qrw	Qrx	Qry	Qrz	Qsa	Qsb	Qsc	Qsd	Qse	Qsf	Qsg	Qsh	Qsi	Qsj	Qsk	Qsl	Qsm	Qsn	Qso	Qsp	Qsq	Qsr	Qss	Qst	Qsu	Qsv	Qsw	Qsx	Qsy	Qsz	Qta	Qtb	Qtc	Qtd	Qte	Qtf	Qtg	Qth	Qti	Qtj	Qtk	Qtl	Qtm	Qtn	Qto	Qtp	Qtq	Qtr	Qts	Qtt	Qtu	Qtv	Qtw	Qtx	Qty	Qtz	Qua	Qub	Quc	Qud	Que	Quf	Qug	Quh	Qui	Quj	Quk	Qul	Qum	Qun	Quo	Qup	Quq	Qur	Qus	Qut	Quu	Quv	Quw	Qux	Quy	Quz	Qva	Qvb	Qvc	Qvd	Qve	Qvf	Qvg	Qvh	Qvi	Qvj	Qvk	Qvl	Qvm	Qvn	Qvo	Qvp	Qvq	Qvr	Qvs	Qvt	Qvu	Qvv	Qvw	Qvx	Qvy	Qvz	Qwa	Qwb	Qwc	Qwd	Qwe	Qwf	Qwg	Qwh	Qwi	Qwj	Qwk	Qwl	Qwm	Qwn	Qwo	Qwp	Qwq	Qwr	Qws	Qwt	Qwu	Qwv	Qww	Qwx	Qwy	Qwz	Qxa	Qxb	Qxc	Qxd	Qxe	Qxf	Qxg	Qxh	Qxi	Qxj	Qxk	Qxl	Qxm	Qxn	Qxo	Qxp	Qxq	Qxr	Qxs	Qxt	Qxu	Qxv	Qxw	Qxx	Qxy	Qxz	Qya	Qyb	Qyc	Qyd	Qye	Qyf	Qyg	Qyh	Qyi	Qyj	Qyk	Qyl	Qym	Qyn	Qyo	Qyp	Qyq	Qyr	Qys	Qyt	Qyu	Qyv	Qyw	Qyx	Qyy	Qyz	Qza	Qzb	Qzc	Qzd	Qze	Qzf	Qzg	Qzh	Qzi	Qzj	Qzk	Qzl	Qzm	Qzn	Qzo	Qzp	Qzq	Qzr	Qzs	Qzt	Qzu	Qzv	Qzw	Qzx	Qzy	Qzz
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DESCRIPTION OF MAP UNITS

Qal Alluvium (Holocene)—Unconsolidated clay, silt, sand, and gravel in and along active stream channels. May also include some slope-wash, fan, and terrace deposits. In flat areas near heads of intermittent streams also includes fine silty eolian deposits. Gravel clasts are composed of sandstone, siltstone, and mudstone; these clasts are tabular and do not usually exceed 2 in. in longest dimension. Chalked rock clasts are found in alluvium in northeast quarter of quadrangle where major coal beds of Mesaverde Group crop out.

Qc Colluvium (Holocene)—Unconsolidated clay, silt, sand, and gravel of slope-wash, eolian, terrace, pediment, and alluvial origin. Terrace- and pediment-type deposits bordering active stream channels dip gently toward streams. A thin veneer of sandy and silty alluvial origin cap these deposits. Locally associated with grassland vegetation. In northwest quarter of quadrangle, composed of fine-grained sand- and siltstone- and gravel-bearing terrace deposits.

Qm Stump and landslide deposits (Holocene and Pleistocene?)—Includes unconsolidated talus, slope wash, and associated mass-wasting debris, which range from clay-sized particles to large boulders. Commonly forms conspicuous hummocky topography. Slumps and landslides commonly occur on steep walls along Wasatch Formation-Green River Formation contact, and Mesaverde Group-Wasatch Formation contact. Locally associated with faults.

Qp Green River Formation (Eocene)—Predominantly lacustrine origin Douglas Creek Member—Consists of light-gray fissile shale, brown sandstone and calcareous siltstone, light-gray to light-yellow oolitic, ostracodal, and algal limestone, and gray limestone, yellowish-green and gray claystone, and a few thin dark-brown to gray oil-shale beds. Bituminous sandstone crops out in lower part of the Douglas Creek Member east of mapped area (R. W. Scott, Jr. and B. E. Barnum, unpub. mapping, 1967) but none was found in the Texas Creek quadrangle. Sandstone beds are fine- to very fine grained and are locally trough cross-stratified. Sandstone and siltstone beds weather to cliffs and ledges of limited lateral extent. Locally within sandstone beds lateral accretion bedding is present. Limestone beds range from several inches to several feet in thickness and weather to ledges and benches that are usually laterally extensive and form local marker beds. Oolitic and ostracodal limestone beds weather reddish brown to orange brown; algal beds weather light gray to white. Marlstone and claystone weather to slopes but, where more thoroughly indurated, may form ledges ranging from several inches to several feet in thickness. Oil shale weathers silver gray to whitish and forms conspicuous ledges with rippled surfaces. Top of member capped by maximum remaining thickness about 800 ft on Park Mountain.

Qr Long Point Bed—Light brown to tan ostracodal limestone marker bed containing *Santidionia* and *Yingidionia gastropods* (Johnson, 1984). Base of Long Point Bed is lower contact of Douglas Creek Member of Green River Formation (Tgd) and marks beginning of Long Point transgression (Johnson, 1984). Bed is 3 to 10 feet in thickness, thinning to east, and weathers to a conspicuous reddish-brown or orange-brown ledge or bench. In western half of quadrangle, overlies a fluvial tongue of Wasatch Formation but, in eastern half of quadrangle, tongue of the Wasatch is unrecognizable or is absent, and Long Point Bed overlies lacustrine beds of Cow Ridge Member of Green River Formation (Tgc).

Qs Cow Ridge Member—Predominantly lacustrine unit consisting of yellow-brown to tan ostracodal, oolitic, and algal limestone, yellowish-brown sandstone, ostracodal and oolitic sandstone, and a few thin beds of gray fissile shale. Limestone beds weather to ledges 1 in. to 3 ft thick. Sandstone beds are fine- to very fine grained, have channel-form geometry, and weather to cliffs and ledges 2 ft to about 15 ft thick. Shale beds weather to steep slopes. Thin strata about 10 ft in thickness along west edge of quadrangle to approximately 20 ft at eastern edge of quadrangle (sec. 20, T. 3 S., R. 102 W.). Absent at south end of Texas Mountain, which is about 2 mi east of quadrangle (R. W. Scott, Jr. and B. E. Barnum, unpub. mapping, 1967). Along south margin of quadrangle, member includes beds mapped elsewhere as part of unnamed tongue of Wasatch Formation. Where member is too thin to map, it is included with Long Point Bed (lp).

Qv Wasatch Formation (Eocene and Paleocene)

Unnamed tongue of Wasatch Formation—Consists of maroon, gray, and light-green shale, mudstone, and claystone, and light-gray to brown sandstone and siltstone. Shale, mudstone, and claystone weather to slopes of variable gradient and may have surfaces that are covered with a thin veneer of claystone clasts forming a ball-bearing or popcorn-like surface. Sandstones are fine- to very fine grained and usually contain abundant trough cross-stratification. Sandstone and siltstone beds extend laterally as far as several hundred feet and weather to cliffs and ledges ranging from 1 to 3 ft in thickness. Stratigraphic intervals that are predominantly sandstone may be continuous across many miles. Isolated sandstone channels may occur anywhere throughout vertical extent of tongue, suggesting that this tongue was deposited on a flood plain of low relief. Tongue may be part of unit 2 of Renegade Tongue of Wasatch Formation (Cashion, 1967). Where exposed in western part of quadrangle thickness is 40-80 ft. Along south margin of quadrangle (sec. 27, T. 3 S., R. 103 W.) 2-40 ft is exposed but is mapped with Cow Ridge Member of Green River Formation. Not mapped separately in extreme northwest corner of quadrangle and is included with Long Point Bed (lp).

Main body—Composed of maroon, gray, and green shale, mudstone and claystone, dark-brown to black carbonaceous shale, and brown, yellow-brown, light-red, and white sandstone. Shale, mudstone, and claystone weather to slopes. Locally slopes have a popcorn-like or a ball-bearing surface as in tongue of Wasatch. Sandstone beds are very fine to fine grained, are cross-stratified to apparently structureless, and may contain siltstone and claystone rip-up clasts along bedding planes. Sandstone and siltstone beds weather to ledges and cliffs ranging from 3 ft to about 30 ft in thickness. As with unnamed tongue of Wasatch Formation, sandstone ledges of limited lateral extent occur throughout main body making correlation of individual sand bodies impossible. Red-bed units within main body of Wasatch are randomly distributed and are laterally continuous throughout quadrangle. Sandstone beds at base of member are medium grained and contain rounded quartzite pebbles. Pebbles may be scattered, concentrated along bedding planes, or form lenses of matrix-supported conglomerate that are laterally extensive and as thick as 4 ft. Conglomeratic interval usually overlies one or more fine-grained, white, cliff-forming sandstone beds. Conglomerate-bearing sandstone is mapped as lowermost part of Wasatch Formation. Conglomerate lenses pinch out to east. In eastern part of quadrangle, main body of Wasatch Formation contains fewer and thinner maroon beds and black carbonaceous shale separates several beds of friable white very fine grained sandstone. Both rock types weather to steep slopes along eastern margin of quadrangle. White sandstone beds in eastern part of quadrangle contain abundant kaolinite, possibly indicating repeated episodes of subaerial exposure and weathering during deposition of basal Wasatch. A zone of silicified wood fragments occurs near the same stratigraphic interval in northwest corner of quadrangle (D5237-C, sec. 19, T. 3 S., R. 103 W.). Pollen recovered near Cretaceous-Tertiary unconformity in NW 1/4 sec. 13, T. 3 S., R. 103 W., indicates a late Paleocene age for the Wasatch Formation (genera *Trochilites*, *Imragulites*, and *Loranthites*; USGS paleobotany loc. no. D5237-C) and a Campanian age for underlying Mesaverde Group (genera *Trochilites*, *Imragulites*, and *Loranthites*; USGS paleobotany loc. no. D5237-B) (D.J. Nichols, written commun., 1987). Thickness ranges from about 100 ft to 400 ft in most of quadrangle; thins to approximately 70 ft along east margin of quadrangle, where accurate thickness measurement is difficult because of extensive rooting and slumping.

Qw Mesaverde Group, undifferentiated (Upper Cretaceous)—White, gray, and light-brown sandstone, gray and black silty and carbonaceous shale, and coal beds. In upper part of group, sandstone is fine to medium grained and usually cross-stratified. In cross section, sand bodies are channel-form and contain scoured lower contacts and fringing upward sequences. Some sandstone bodies in upper third of Mesaverde Group extend laterally for more than 0.5 mi. Sandstone beds near top of Mesaverde Group have a bright white appearance, which may result from weathering alteration of feldspar to kaolinite during the hiatus represented by Cretaceous-Tertiary unconformity. Sandstone weathers to cliffs that range in thickness from 2 ft to more than 50 ft. Sandstone is often interbedded with thin laminations of shale, siltstone, and flecks of coal. Shale weathers to steep slopes. In northeast corner of quadrangle in drainages of Red Wash, West Red Wash, and Middle Red Wash a conspicuous very fine grained, horizontally laminated, white sandstone ledge with a "salt and pepper" appearance crops out. This is the "coal marker" or "cm" sandstone of Cactus Reservoir quadrangle about 20 mi to north (Barnum and Garrigues, 1980) and the adjoining Texas Mountain quadrangle to the east (R. W. Scott, Jr. and B. E. Barnum, unpub. mapping, 1967). The cm sandstone ledge, not mapped separately in this report, is near the bottom of the "coal unit" of Mesaverde Group in areas where the thickest and most laterally persistent coals in the Mesaverde Group occur. The "coal unit" is about 450 ft thick in the quadrangle and dominant lithologies include dark-brown to black carbonaceous shale, light-gray mudstone, thin yellowish-gray, fine- to very fine grained sandstone, gray to brown siltstone, and coal. Sandstone beds of the "coal unit" in this quadrangle are thinner than in upper part of Mesaverde Group and are generally less than 10 ft thick. Coal seams range from 0.25 in. stringers to beds 1.3 ft thick. Carbonaceous shale and coal weather to steep slopes. Contact between "coal unit" and upper part of Mesaverde Group (not mapped) is gradational and does not follow a particular stratigraphic horizon. Approximately 1,200 ft of undifferentiated Mesaverde Group is exposed in quadrangle.

STRUCTURE

The structure in the Texas Creek quadrangle is dominated by a series of northeast-trending normal faults and fault zones. The direction of faulting is reflected in the principal joint patterns in indurated sandstones seen in many areas of the quadrangle. Another major component of faulting trends nearly east-west. The outcrop pattern of faults in the area of secs. 25 and 26, T. 3 S., R. 103 W., suggest that the east-west fault shown on the map may offset the northeast-trending faults and may, therefore, be younger. This relationship is unclear, however, because of the difficulty of tracing fault scarps through thick vegetation and beneath alluvium. Twen (1987) shows that fault trends within the Precambrian basement roughly parallel the northeast-trending faults mapped in the Texas Creek quadrangle. Steep southward dips in the vicinity of the east-west fault indicate that the dominant structure in the area immediately north of the fault is a faulted monocline which raises the "coal unit" of the Mesaverde to outcrop level in the northeast corner of the quadrangle. Elevations of the top of the Castlegate Sandstone in drill holes suggest a displacement of several hundred feet along the eastern part of the major east-west fault.

Drill-hole data indicate that many oil and gas wells drilled in the quadrangle cut fault planes. Analysis of drill-hole elevations of the top of the Castlegate Sandstone suggests the presence of faults at depth that are not evident at the surface. The complexity of faulting and the large-scale surface control in most of the southern and western parts of the quadrangle precludes the drawing of reliable structure contours.

REFERENCES CITED

Barnum, B.E., and Garrigues, R.S., 1980, Geologic map and coal sections of Cactus Reservoir quadrangle, Rio Blanco and Moffat Counties, Colorado: U.S. Geological Survey Miscellaneous Field Studies Map MF-1179, scale 1:24,000.

Cashion, W.A., 1967, Geology and fuel resources of the Green River Formation, southeastern Uinta Basin, Utah and Colorado: U.S. Geological Survey Professional Paper 548, 68 p.

Johnson, R.C., 1984, New names for units in the lower part of the Green River Formation, Piceance Creek Basin, Colorado: U.S. Geological Survey Bulletin 1529, 25 p.

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List of drill holes in Texas Creek quadrangle, Rio Blanco County, Colorado

(Leaders (---) indicate data not known, not available, or unreliable. 1 ft = 0.305 m. Query following section number indicates that location is uncertain. TD, total depth. Kc, elevation of top of Castlegate Sandstone as interpreted from geophysical logs. Map number shows key to numbered drill holes on map.)

Map No.	Section	Well Name	TD (ft)	Kc (ft)
T. 2 S., R. 102 W.				
1	18	Phillips W. Douglas Ck. 18-7	---	---
2	18	Beardmore W. Douglas Ck. 18-3	2908	---
3	19	Conoco W. Douglas Ck. 19-3	3048	5291
4	19	Conoco W. Douglas Ck. 15	3048	5291
5	19	Conoco W. Douglas Ck. 10	3307	5213
6	19	Conoco W. Douglas Ck. 14	2960	5416
7	19	Conoco W. Douglas Ck. 8	2803	---
8	30	Phillips W. Douglas Ck. 30-1	2700	---
9	30	Phillips W. Douglas Ck. 30-6	3094	---
10	31	Phillips W. Douglas Ck. 31-4	3237	---
T. 2 S., R. 103 W.				
11	13	Fuelco Lower Horse Draw 16	2478	5047
12	13	Fuelco Lower Horse Draw 12	2311	5121
13	14	Alamo Lower Horse Draw 3	2322	4890
14	15	Fuelco Lower Horse Draw 18	2510	4878
15	15	Wexpro Lower Horse Draw 22	---	---
16	16	Alamo Lower Horse Draw 6	2500	4689
17	17	Alamo Lower Horse Draw 5	2330	4486
18	20	Wexpro 20-1	3650	---
19	20	Wexpro 20-4	2930	4536
20	20	Ponka Lower Horse Draw 20-1-A	3275	4610
21	21	Ponka Lower Horse Draw 21-8	3020	---
22	21	Ponka Gov't. 21-1	3225	4919
23	21	Gould Lower Horse Draw 21-3	2625	4965
24	21	Gould Lower Horse Draw 21-7	3200	5011
25	22	Fuelco Lower Horse Draw 17	---	---
26	22	Wexpro Lower Horse Draw 21	---	---
27	22	Alamo Lower Horse Draw 4	2650	5052
28	22	Wexpro Lower Horse Draw 10	---	---
29	23	Wexpro Lower Horse Draw 15	2580	5145
30	23	Wexpro Lower Horse Draw 14	2611	5173
31	24	Conoco W. Douglas Ck. 9	3265	5168
32	24	Conoco W. Douglas Ck. 13-A	3024	---
33	24	Conoco W. Douglas Ck. 24-3	2960	5282
34	24	Conoco W. Douglas Ck. 11	3100	5241
35	25	Conoco W. Douglas Ck. 13	2810	5336
36	25	Conoco W. Douglas Ck. 25-2	3193	5396
37	25	Conoco W. Douglas Ck. 9	---	---
38	25	Conoco W. Douglas Ck. 5	2356	---
39	25	Conoco W. Douglas Ck. 12	5595	4966
40	26	Fuelco Lower Horse Draw 11	2800	5381
41	26	Alamo Lower Horse Draw 2-A	3018	5161
42	27	Wexpro Lower Horse Draw 26	3100	5070
43	27	Fuelco Lower Horse Draw 23	3114	4944
44	27	Alamo Lower Horse Draw 8	2945	5163
45	28	Ponka W. Lower Horse Draw 28-16	2699	4627
46	28	Ponka W. Lower Horse Draw 28-5	3040	4830
47	28	Gould 28-19	3429	4801
48	28	Alamo Lower Horse Draw 9	2186	4703
49	33	Fuelco Lower Horse Draw 19	3227	4698
50	34	Fuelco Lower Horse Draw 19	3117	5059