ContactsAndFaults		ContactsAndFaults	ContactsAndFaults	ContactsAndFaults
1.1.1 (1) contact, accurate	1.1.21 (21) internal contact, approximate 1.1.21 (21) gradational contact, inferred gradational contact, inferred	2.1.1 (118) 2.2.1 (126) A price of the pri	2.5.9 (166) rotational fault, 2.6.1 (174) dextral strike slip 2.6.9 (182) sinistral strike	2.9.1 (214) overturned thrust fault accurate 2.10.1 (222) detachment fault, accurate fault accurate fault accurate
1.1.2 (2) ? ?	1.1.12 (12) internal contact, 1.1.22 (22) gradational contact, gradational contact,	2.1.2 (119) 2.2.2 (127) 2.2.2 (127) 2.2.2 (127) 3 consider a property of the p	2.5.10 normal-slip offset, accurate fault, accurate slip fault, accurate (167) 2.6.2 (175) 2.6.2 (175) 2.6.10 (183) 3.7 2.7 rotational fault, normal-slip dextral strike slip fault. sinistral strike slip fault.	2.9.2 (215) overturned thrust fault, 2.10.2 (223) overturned thrust fault, detachment fault, detachment fault, master detachment fault,
1.1.3 (3) contact, approximate	questionable, approximate 1.1.13 (13) internal contact, inferred questionable, inferred 1.1.23 (261) questionable, inferred questionable, inferred gradational contact, concealed	questionable, accurate 2.1.3 (120) high angle fault, approximate questionable, accurate 2.2.11 (136) normal fault, approximate zone, questionable, accurate (136) mixed brittle and ductile	2.5.11 offset, questionable, accurate questionable, accurate (168) rotational fault, normal-slip dextral strike slip 2.6.3 (176) dextral strike slip 2.6.11 (184) growth questionable, accurate questionable, accurate sinistral strike slip	2.9.3 (216) overturned thrust 2.10.3 (224) detachment fault, approximate 2.10.27 (232) master detachment master detachment
1.1.4 (4) ? contact, questionable, approximate	1.1.14 (14) 1.1.24 (262) 1.1.1.24 (262) 1.1.1.24 (262) 1.1.1.11 (11) 1	2.1.4 (121) 2.2.4 (129) 2.2.12 (137) shear zone, approximate 2.2.12 (137) high angle fault, normal fault,	offset, approximate 2.5.12 (169) dextral strike slip fault, approximate fault, approximate 2.6,12 (185), dextral strike slip fault, sinistral strike slip fault,	2.9.4 (217) 2.10.4 (225) 2.10.4 (225) 2.10.28 (233) 2.10.2
1.1.5 (5) contact, inferred	questionable, inferred 1.1.15 (258) internal contact, concealed 1.1.25 (25) unconformable contact, accurate	questionable, approximate 2.1.5 (122) high angle fault, inferred questionable, approximate 2.2.13 (138) normal fault, inferred mixed brittle and ductile	2.5.13 (170) rotational fault, questionable, approximate 2.6.5 (178) questionable, approximate questionable, approximate (186) questionable, approximate (186) sinistral strike	2.9.5 (218) overturned thrust detachment fault, inferred questionable, approximate 2.10.5 (226) detachment fault, inferred master detachment
1.1.6 (6)	1.1.16 (259) internal contact, 1.1.26 (26) unconformable contact,	shear zone, inferred 2.1.6 (123) high angle fault, normal fault, questionable, inferred mixed brittle and ductile shear	2.5.14 normal-slip offset, inferred fault, inferred slip fault, inferred slip fault, inferred 2.6,6 (179) 2 2.6,14 (187) 2 2.6,14 (187) 3 2.6	fault, inferred 2.9.6 (219) overturned thrust fault, vertically inferred 2.10.6 (227) overturned thrust fault, detachment fault, master detachment fault,
1.1.7 (256) contact, concealed	questionable, concealed 1.1.17 (17) gradational contact, accurate questionable, accurate 1.1.27 (27) unconformable contact, approximate	questionable, inferred 2.1.7 (273) high angle fault, concealed normal fault, concealed 2.2.15 (277) zone, questionable, inferred mixed brittle and ductile	2.5.15 offset, questionable, inferred (285) offset, questionable, inferred rotational fault, normal-slip dextral strike slip questionable, inferred 2.6.15 (289) sinistral strike slip	2.9.7 (297) overturned thrust
2.1.8 (274) 2.1.8 high angle fault,	1.1.18 (18) IIII gradational contact, gradational contact, unconformable contact, unconformable contact, unconformable contact, unconformable contact,	shear zone, concealed 2.1.8 (274) high angle fault, normal fault, mixed brittle and ductile shear	offset, concealed 2.5.16 (286) rotational fault, normal-slip offset, concealed 2.6.8 (288) dextral strike slip fault, dextral strike slip fault, sinistral strike slip fault,	2.9.8 (298) Overturned thrust fault, 2.10.8 (300) Overturned thrust fault,
questionable, concealed internal contact, accurate	1.1.19 (19) questionable, accurate 1.1.19 (19) questionable, accurate 1.1.29 (29) qradational contact, approximate questionable, approximate 1.1.29 (29) questionable, approximate	questionable, concealed questionable, concealed zone, questionable, concealed	offset, questionable, concealed questionable, concealed questionable, concealed questionable, concealed	questionable, concealed questionable, concealed questionable, concealed questionable, concealed
1.1.10 (10) 2 internal contact, questionable, accurate	1.1.20 (20) IIIIIII IIIIIII IIIIIII IIIIIII IIIIII	2.3.1 (142) low angle fault, accurate	2.7.1 (190) 2.7.9 (198) 2.8.1 (206) thrust fault, accurate	2.10.33 (238) listric fault at head of scarp on high angle coal bed, accurate 2.10.34 detachment fault, accurate fault, accurate 2.10.35 coal bed, accurate 2.10.36 coal bed, accurate 2.10.37 coal bed, accurate 2.10.38 coal bed, accurate 2.10.39 coal bed, accurate 2.10.30 coal bed, accurate 2.10.31 coal bed, accurate 2.10.32 coal bed, accurate 2.10.33 coal bed, accurate 2.10.34 coal bed, accurate 2.10.35 coal bed, accurate 2.10.36 coal bed, accurate 2.10.37 coal bed, accurate 2.10.38 coal bed, accurate 2.10.39 coal bed, accurate 2.10.30 coal bed, accurate 2.10.31 coal bed, accurate 2.10.32 coal bed, accurate 2.10.31 coal bed, accurate 2.10.32 coal bed, accurate 2.10.31 coal bed, accurate 2.10.32 c
420000.0000, 2000.000	questionable, approximate	2.3.2 (143) 2.4.2 (151) 2.4.2 (151) 2.4.2 (151) 2.4.2 (151) 2.4.2 (151) 3.5 (159) 3.5	2.7.2 (191) right normal fault, 2.7.10 (199) left normal fault, 2.8.2 (207) thrust fault, questionable, accurate	listric fault at head of detachment scarp on high angle fault, coal bed, questionable, accurate guestionable, accurate
1.1.31 (263) unconformable contact, concealed	1.2.5 (41) 1.2.15 (267) key bed, inferred clay bed, concealed	questionable, accurate 2.3.3 (144) low angle fault, approximate questionable, accurate 2.4.3 (152) reverse fault, approximate questionable, accurate 2.5.3 (160) reverse fault, approximate rotational fault, reverse-slip offset, approximate	2.7.3 (192) questionable, accurate questionable, accurate left normal fault, approximate questionable, accurate left normal fault, approximate questionable, accurate questionable, accurate left normal fault, approximate questionable, accurate questiona	2.10.35 (240) 2.12.3 (248) 1.2.27 (63) 1.2.27 (63) coal bed, approximate detachment fault, approximate
unconformable contact, questionable, concealed	1.2.6 (42) 1.2.16 (268) 2.	2.3.4 (145) low angle fault, questionable, approximate 2.4.4 (153) reverse fault, questionable, approximate 2.5.4 (161) rotational fault, reverse-slip 2.5.5 offset, questionable, approximate	2.7,4 (193) right hormal fault, questionable, approximate 2.7,12 (201) left normal fault, questionable, approximate 2.8.4 (209) thrust fault, questionable, approximate questionable, approximate	2.10.36 (241) 2.12.4 (249) 2.12
1.1.33 (33) incised-scarp sedimentary contact, accurate	1.2.7 (265) key bed, concealed bed of economically important commodity, accurate	low angle fault, inferred rotational fault,	2.7.5 (194) 2.7.13 (202) 2.8.5 (210) 2.8.5 (210) thrust fault, inferred	(242) 1.2.29 (65) listric fault at head of fault showing displacement coal bed, inferred
1.1.34 (34) incised-scarp sedimentary contact, questionable, accurate	1.2.8 (266) key bed, questionable, concealed bed of economically important commodity, questionable, accurate	2.3.6 (147) low angle fault, reverse fault, reverse fault, guestionable, inferred 2.5.6 (163) rotational fault, reverse-slip 2.5.7 offset, guestionable, inferred	2.7,6 (195) right hormal fault, questionable, inferred 2.7,14 (203) Questionable, inferred 2.8.6 (211) Questionable, inferred thrust fault, questionable, inferred questionable, inferred	listric fault at head of detachment fault showing displacement coal bed, questionable, inferred 2.10.39 fault, questionable, inferred during holocene time
1.1.35 (35), incised-scarp sedimentary contact, approximate	1.2.9 (45) clay bed, accurate bed of economically important commodity, approximate	2.3.7 (279) 2.4.7 (281) low angle fault, concealed reverse fault, concealed rotational fault, reverse-slip offset concealed	2.7.7 (291) 2.7.15 (293) 2.8.7 (295) right normal fault, concealed left normal fault, concealed thrust fault, concealed	fault showing displacement coal bed, concealed
1.1.36 (36) incised-scarp sedimentary contact, 1.2.1 questionable, approximate	1.2.10 (46) 2 1.2.20 (56) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2.3.8 (280) low angle fault, questionable, concealed 2.4.8 (282) 2.5.8 (284) 2.5.8 (284) 2.5.8 (284) 2.5.8 (284) 2.5.8 (284) 3.5.8 (284) 3.5.8 (284) 3.5.8 (284) 4.5.8 (284) 5.5.8 (284) 6.5.8 (284) 7.5.8 (284) 7.5.8 (284) 7.5.8 (284) 9	2.7.8 (292) right normal fault, questionable, concealed 2.7.16 (294) questionable, concealed 2.8.8 (296) questionable, concealed 2.8.8 (296) questionable, concealed 2.8.8 (296) questionable, concealed	listric fault at head of detachment fault showing displacement coal bed, questionable, concealed
key bed, accurate	1.2.11 (47) clay bed, approximate bed of economically important commodity, inferred		4	2.14.1 (254) CONDUCTION OF THE CONTROL OF THE CONTR
key bed, questionable, accurate	1.2.12 (48) 7 1.2.22 (58) 7 1.2.23 (13 (49) (269)	ReferenceNumber/SymbolCode(RuleID) Description	ReferenceNumber/SymbolCode(RuleID) Description	ReferenceNumber/SymbolCode(RuleID) Description
1.2.3 (39) key bed, approximate	1.2.13 (49) clay bed, inferred bed of economically important commodity, concealed 1.2.14 (50) 1.2.24 (270)			
key bed, questionable, approximate	clay bed, questionable, inferred bed of economically important commodity, questionable, concealed			
AZGS.65 (305) map boundary	Map boundary, internal			
ReferenceNumber/SymbolCode(RuleID) Description				
G	GeologicLines	GeologicLines	GeologicLines	GeologicLines
5.1.1 (1) anticline, accurate	5.1.11 (11) anticline, approximate 5.2.5 (21) antiform, inferred	5.3.29 (61) 5.3.39 (71) 5.4.1 (81) overturned anticline, inferred inverted anticline, concealed antiformal sheath fold, accurate	5.6.9 (121) synform, accurate syncline, approximate syncline, approximate syncline, inferred	5.8.5 (181) synformal sheath fold, inferred 5.8.15 (191) synformal sheath fold, concealed 5.8.15 (191) synformal sheath fold, concealed
5.1.2 (2) ? ? ? anticline, questionable, accurate	5.1,12 (12) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5.3,30 (62) overturned anticline, questionable, inferred overturned anticline, questionable, inferred overturned anticline, questionable, inferred overturned anticline, questionable, concealed overturned anticline, questionable, accurate	synform, questionable, accurate 5.7,4 (132) asymmetric syncline, questionable, approximate 5.7,14 (142) asymmetric syncline, questionable, inferred	5.8,6 (182) 5.8,16 (192) 1.3.10 (305) synformal sheath fold, synformal sheath fold, dike, approximate
anticline, approximate	5.1.13 (13) anticline, inferred 5.2.7 (23) antiform, concealed	overturned anticline, concealed overturned anticline, concealed inverted anticline, accurate 5.4.3 (83) antiformal sheath fold, approximate	synform, approximate 5.7.5 (133) synform, approximate 5.7.5 (133) synform, approximate 5.7.5 (133) synform asymmetric syncline, inferred symmetric syncline, concealed	5.8.7 (183) Synformal sheath fold conscaled fold conscaled
anticline, questionable, approximate	5.1,14 (14) 5.2.8 (24) anticline, questionable, inferred antiform, questionable, concealed	5.3.32 (64) overturned anticline, questionable concealed overturned anticline, questionable accurate guestionable approximate	5.6,12 (124) 5.7,6 (134) 5.7,6 (134) 5.7,16 (144) asymmetric syncline, questionable, inferred questionable, concealed	5.8.8 (184) synformal sheath fold, questionable, accurate 5.9.2 (194) monocline, questionable, accurate dike, approximate
artionie, mered	5.1.15 (15) vanticline, concealed 5.2.9 (25) antiform, accurate	5.3.33 (65) inverted anticline, accurate 5.3.43 (75) inverted anticline, approximate 5.4.5 (85) antiformal sheath fold, inferred	synform, inferred asymmetric syncline, concealed overturned syncline, accurate	5.8.9 (185) 5.9.3 (195) 5.9.3 (195) monocline, approximate
anticline, questionable, inferred	5.1.16 (16) anticline, questionable, concealed 5.2.10 (26) antiform, questionable, accurate	5.3.34 (66) inverted anticline, questionable, accurate 5.3,44 (76) inverted anticline, questionable, approximate 5.4,6 (86) antiformal sheath fold, questionable, inferred	5.6,14 (126) synform, questionable, inferred synform, questionable, inferred asymmetric syncline, questionable, concealed questionable, accurate	5.8.10 (186) synformal sheath fold, questionable, accurate
[♥] anticline, concealed	5.2.1 (17) antiform, accurate 5.2.11 (27) antiform, approximate	5.3.35 (67) 5.4.7 (87) inverted anticline, approximate inverted anticline, inferred anticline, inferred fold, concealed	5.6.15 (127) 5.7.9 (137) 5.7.19 (147) 5.7.19 (147) 5.7.19 (147) 6.7.19	5.8.11 (187) 5.9.5 (197) monocline, inferred
anticime, questionable, concealed	5.2.2 (18) 5.2.12 (28) 7 7 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	5.3,36 (68) inverted anticline, questionable, approximate 5.3,46 (78) inverted anticline, questionable, inferred fold, concealed 5.4,8 (88) questionable, concealed 5.4,0 (80) 7.4,0 (88) 7.5,2 (70) 7.5,2 (70) 7.5,2 (70) 7.5,3 (70) 7.5,4 (70)	5.6.16 (128) synform, questionable, concealed 5.7.10 (138) asymmetric syncline, accurate 5.7.20 (148) overturned syncline, approximate 5.7.21 questionable, approximate	synformal sheath fold, monocline, questionable, inferred lineament
	5.2.3 (19) 5.2.13 (29) antiform, approximate antiform, inferred	inverted anticline, inferred inverted anticline, concealed inverte	asymmetric syncline, accurate 5.7.11 (139) asymmetric syncline, approximate (149) overturned syncline, inferred	5.8.13 (189) synformal sheath fold, inferred 5.9.7 (199) monocline, concealed joint, accurate
anticline, questionable, accurate	antiform, questionable, approximate 5.2,14 (30) antiform, questionable, approximate 5.2,14 (30) antiform, questionable, inferred	5.3,38 (70) inverted anticline, questionable, inferred 5.3,48 (80) inverted anticline, questionable, concealed 5.4.10 (90) antiformal sheath fold, questionable, accurate	5.7.2 (130) asymmetric syncline, questionable, accurate 5.7.12 (140) asymmetric syncline, questionable, approximate 5.7.12 (140) asymmetric syncline, questionable, approximate 5.7.22 (150) overturned syncline, questionable, inferred	5.8,14 (190) synformal sheath fold, questionable, inferred 5.9,8 (200) monocline, questionable, concealed joint, approximate

ReferenceNumber/SymbolCode(RuleID) Description

5.3.9 (41) 🔥

5.2.16 (32)

antiform, questionable, concealed

asymmetric anticline, accurate

asymmetric anticline, approximate

asymmetric anticline,

asymmetric anticline,

questionable, approximate

questionable, concealed

asymmetric antic<mark>l</mark>ine, inferred

5.3,6 (38) asymmetric anticline,

questionable, accurate

asymmetric anticline, accurate

asymmetric anticline,

asymmetric antic<mark>l</mark>ine, inferred

questionable, inferred

questionable, accurate

asymmetric anticlin<mark>e</mark>, approximate

questionable, approximate
5.3.13 (45)

5.3.16 (48) asymmetric anticline,

questionable, inferred 5.3.7 (39) questionable, concealed 5.3.17 (49) questionable, concealed 5.3.27 (59) questionable, accurate

5.3.8 (40)

asymmetric anticline,

5.3.18 (50)

overturned anticline,

5.3.28 (60)

overturned anticline,

asymmetric anticline, concealed overturned anticline, accurate overturned anticline, approximate

5.3.19 (51)

questionable, approximate 5.3.21 (53)

5.3,22 (54) _- _- _- _- _- _- overturned anticline,

overturned anticline, approximate

overturned anticline,

overturned anticline, inferred

overturned anticline, concealed

overturned anticline,

questionable, approximate

questionable, concealed

ReferenceNumber/SymbolCode(RuleID) Description

5.5.5 (101) 5.5.15 (111) syncline, inferred syncline, concealed

syncline, questionable, inferred syncline, questionable, concealed

syncline, questionable, accurate synform, questionable, approximate

5.5,12 (108) 5.6,6 (118) 5.6,6 (118) syndime, questionable, inferred

5.6.2 (114)

synform, questionable, accurate

5.5,6 (102)

syncline, concealed

5.5.8 (104)

5.5.9 (105) syncline, accurate

5.5.11 (107) _____ syncline, approximate

5.5.3 (99) 5.5.13 (109) 5.6.7 (119) syncline, approximate syncline, inferred synform, concealed

5.5,4 (100) 5.6.8 (120) 5.6.8

syncline, questionable, concealed

5.4.11 (91)

antiformal sheath

5.4,12 (92)

questionable, approximate 5.4.13 (93)

5.4.14 (94) ? ? ? ? ? antiformal sheath fold,

5.5.1 (97) syncline, accurate

5.5.2 (98) ? ? syncline, questionable, accurate

fold, approximate

questionable, inferred

antiformal sheath

fold, concealed

antiformal sheath fold,

questionable, concealed

antiformal sheath fold,

antiformal sheath fold, inferred

ReferenceNumber/SymbolCode(RuleID) Description

inverted syncline, accurate

5.7.34 (162) ? ? ? inverted syncline,

5.7.35 (163) questionable, accurate

questionable, approximate 5.7.37 (165)

questionable, inferred
5.7.31 (159)

overturned syncline, concealed

inverted syncline, accurate

5.7.41 (169)

overturned syncline, concealed

inverted syncline, accurate

5.8.3 (179)

synthmat block lodg, questionable, accurate

5.8.3 (179)

5.7.32 (160)

overturned syncline,

overturned syncline,

inverted syncline,

synformal sheath fold,

inverted syncline, approximate

inverted syncline, inferred

questionable, inferred

questionable, accurate

overturned syncline, concealed

overturned syncline, accurate

questionable, concealed 5.7.25 (153) $_{\psi\,\psi}$

5.7.26 (154) vy overturned syncline,

questionable, accurate

questionable, approximate 5.7.29 (157)

overturned syncline, approximate

overturned syncline, inferred

questionable, concealed

5.7.43 (171)

inverted syncline, approximate

synformal sheath fold,

questionable, approximate

inverted syncline,

ReferenceNumber/SymbolCode(RuleID) Description

AZGS.1100 (327)

 AZGS.2425 (319)
 AZGS.1102 (329)
 AZGS.73 (339)

 orange dike accurate
 magenta marker bed

AZGS.2426 (320)

Orange dike accurate

AZGS.1103 (330)

red marker bed

sky dike, accurate

green dike accurate

green dike accurate

magenta dike accurate

red dike accurate

AZGS.2418 (312)
sky dike, approximate

AZGS.2420 (314)

AZGS.2422 (316) magenta dike accurate

AZGS.2424 (318)
red dike accurate

AZGS.2421 (315)

AZGS.2423 (317)

AZGS.1104 (331)

AZGS.56 (338)

midnight marker bed

trace, accurate

fold hinge surface

pink dike accurate

pink dike accurate

purple dike accurate

purple dike accurate

mignight dike accurate

midnight dike accurate

AZGS.2428 (322)