

POTASH CO. OF AMERICA #4 PIPKIN

200-10	80% fine to coarse angular quartz sand, 20% gray shale.
210-20	90% fine to coarse angular quartz sand, 10% light gray shale.
220-30	50% fine to coarse angular quartz sand, 50% light gray shale.
230-40	20% " " " " " 80% " " "
240-50	20% ditto 80% ditto
250-60	50% ditto 50% ditto
260-70	50% ditto 50% ditto
270-80	50% ditto 50% ditto
280-90	5% ditto 95% ditto
290-300	20% ditto 80% ditto
300-10	10% ditto 90% ditto
310-20	50% ditto 50% ditto
320-30	40% coarse angular white quartz sand, 30% fine sand, 30% gray shale.
330-40	Ditto, traces pyrite, chert.
340-50	Ditto
350-60	90% Med. to coarse, angular to rounded quartz sand, 10% gray shale.
360-70	Ditto, Red and pink chert, and flint fragments, frosted quartz grains.
370-80	Ditto
380-90	Ditto
390-400	Ditto
400-10	95% fine to coarse, angular to rounded white quartz sand, 5% gray shale.
410-20	Ditto
420-30	Ditto
430-40	90% sand as above, 10% gray shale.
440-50	Ditto
450-60	95% very fine to coarse angular white quartz sand, 5% gray shale.
460-70	90% ditto 10% ditto
470-80	90% ditto, (flint, chert, pink and red fragments) 10% ditto
480-90	Ditto
490-500	Ditto
510-20	Ditto
520-30	90% Med. to coarse quartz sand, chert and flint fragments, 10% gray shale.
530-40	95% Ditto 5% ditto.
540-50	95% Ditto 5% ditto
550-60	80% Med. to coarse quartz sand, 10% white clay, 10% gray shale.
560-70	95% Ditto 5% gray shale, chert fragments.
570-80	90% Ditto 5% Ditto
580-90	80% fine to Med. white quartz sand, 10% coarse sand, 10% gray shale.
590-600	50% fine to Med. quartz sand, 30% gray shale, 20% white shale.
600-10	
610-20	
620-30	
630-40	
640-50	
650-60	
660-70	
670-80	
680-90	
690-700	
700-10	90% fine to coarse white and pink quartz sand, 10% gray shale.
710-20	80% Ditto 20% Ditto
720-30	90% Ditto 10% Ditto
730-40	70% Ditto 30% Ditto
740-50	40% light greenish gray shale, 40% dark gray shale, 20% sand.
750-60	40% ditto 30% ditto 30% ditto.
760-70	90% ditto 5% ditto 5% ditto.
770-80	80% ditto 10% dark gray shale, 10% sand.
780-90	95% light greenish gray shale, 5% sand.
790-800	50% ditto 50% dark gray shale, trace sand.
800-10	50% light gray shale, 50% dark gray shale, trace sand.
810-20	Ditto
820-30	Ditto
830-40	50% light and dark gray shale, 50% fine to coarse sand.
840-50	Ditto
850-60	Ditto
860-70	70% fine to coarse angular quartz sand, 30% light gray shale.
870-80	50% fine to coarse angular quartz sand, 50% light gray shale.
880-90	80% ditto 20% ditto.
890-900	20% ditto 80% light and dark gray shale.
900-10	50% greenish gray shale, 50% fine to coarse quartz sand.
910-20	40% greenish gray shale, 40% dark gray shale, 20% quartz sand.
920-30	40% greenish gray shale, 40% dark gray shale, 20% "
930-40	70% light green gray shale, 30% fine to coarse quartz sand.
940-50	Ditto, trace gypson.
950-60	80% light gray green shale, 20% fine to coarse angular quartz sand.

#4 Pipkin - Contd.

960-70	70% light green gray shale, 10% dark gray shale, 10% fine to coarse sand, trace purple shale, gyp.
970-80	Ditto
980-90	70% dark gray shale, 20% fine to coarse quartz sand, 10% light gray siltstone.
990-1000	70% dark gray shale, 20% fine to coarse sand, 10% light gray siltstone, chert fragments (cavings).
1000-10	70% dark gray shale, 10% light gray siltstone, 20% sand, trace pyrite.
1010-20	80% dark gray shale, 20% fine to coarse quartz sand.
1020-30	60% dark gray shale, 40% fine to coarse quartz sand, chert frags.
1030-40	Ditto
1040-50	90% light gray shale, 10% sand.
1050-60	Ditto
1060-70	Ditto
1070-80	50% light gray shale, 50% fine to coarse quartz sand.
1080-90	80% fine to very coarse white to brown angular quartz sand; 20% light gray shale.
1090-1100	70% sand as above; 30% shale as above.
1100-10	90% light gray shale, 10% sand.
1110-20	Ditto
1120-30	70% light gray shale, 30% fine to coarse sand.
1130-40	90% ditto 10% ditto
1140-50	90% ditto 10% ditto
1150-60	70% ditto 30% ditto
1160-70	90% ditto 10% ditto
1170-80	70% ditto 30% ditto
1180-90	80% ditto 20% ditto
1190-1200	90% ditto 10% ditto
1200-10	90% ditto 10% ditto
1210-20	95% dark gray shale, 5% sand
1220-30	Ditto
1230-40	Ditto
1240-50	Ditto
1250-60	Ditto
1260-70	100% light gray shale, trace sand
1270-80	Ditto
1280-90	Ditto
1290-1300	Ditto - Trace white clay
1300-10	95% light gray shale, 5% sand
1310-20	100% light to dark gray shale, trace sand.
1320-30	Ditto
1330-40	Ditto
1340-50	Ditto
1350-60	95% dark gray shale, 5% sand.
1360-70	Ditto
1370-80	50% light gray shale, 50% dark gray to black shale, <u>trace coal</u> and sand. (Top Fruitland)
1380-90	Ditto - More coal.
1390-1400	60% light gray shale, 40% dark gray to black shale, trace sand, coal.
1400-10	40% <u>coal</u> , 30% black shale, 30% light gray shale, trace sand.
1410-20	10% <u>coal</u> , 60% black shale, 25% light gray shale, 5% sand.
1420-30	50% dark gray to black shale, 50% light gray shale, trace coal, sand.
1430-40	Ditto
1440-50	80% light gray shale, 20% dark gray shale, trace sand, coal.
1450-60	40% light gray shale, 40% dark gray shale, 20% light gray siltstone, trace coal and sand.
1460-70	70% <u>coal</u> , 20% light gray shale, 10% sand.
1470-80	50% <u>coal</u> , 40% gray shale, 10% sand.
1480-90	40% coal, 40% gray shale, 10% white siltstone, 10% sand.
1490-1500	30% coal, 50% gray shale, 10% sand.
1500-10	40% light gray shale, 40% dark gray shale, 10% coal, 10% sand.
1510-20	40% black shale, 40% gray shale, 10% coal, 10% sand
1520-30	30% black shale, 40% gray shale, 30% sand, trace coal.
1530-40	80% light gray shale, 20% black shale, 10% sand.
1540-50	30% gray to black shale, 40% fine grained sand, 20% coal.
1550-60	70% gray to black shale, 20% sand, 10% coal.
1560-70	90% gray to black shale, 10% sand.
1570-80	80% black Carb. shale, 10% gray shale, 10% coal, trace sand.
1580-90	70% black Carb. shale, 30% gray shale, trace coal, sand.
1590-1600	50% fine to coarse angular quartz sand, 50% gray shale.
1600-10	