

LEGEND

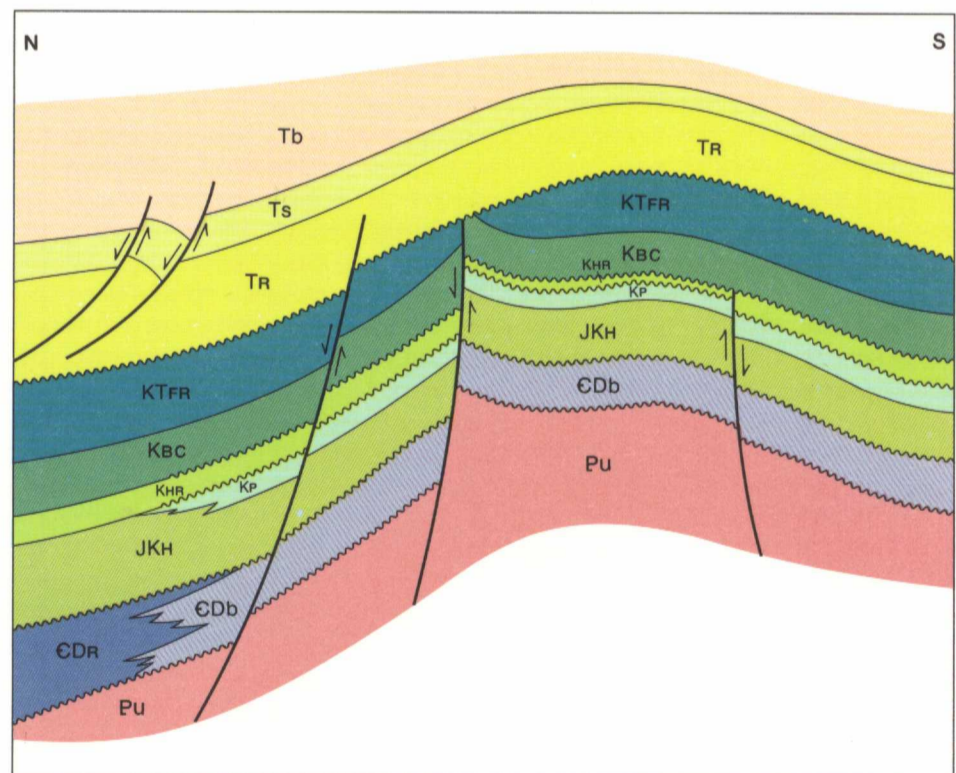
- QUATERNARY**
PLEISTOCENE AND HOLOCENE
- Qu Mainly hummocky or ridged moraine and lacustrine deposits with extensive organic cover; undivided
 - Qf Fluvial silt, sand and gravel; in part with cover of organic deposits; undivided
- STRUCTURE SECTION 3**
- GENEOZOIC**
- TERTIARY AND QUATERNARY**
EOCENE TO PLEISTOCENE
- Td Sandstone and mudstone; fluviodeltaic; includes Beaufort Formation and Quaternary surficial deposits; undivided
- TERTIARY**
EOCENE
- Ts Shale and mudstone; prodeltaic, marine; intertongues with and overlies Reindeer Formation
- PALEOCENE**
- Tr REINDEER FORMATION: sand, gravel, lignite and mud; marine and nonmarine; gas-bearing in Taglu Field
- MESOZOIC AND CENOZOIC**
- CRETACEOUS AND TERTIARY**
UPPER CRETACEOUS AND LOWER TERTIARY
- KTrF FISH RIVER GROUP: mudstone and siltstone; prodeltaic and shallow marine; includes Tent Island and Moose Channel Formations; undivided
- CRETACEOUS**
UPPER CRETACEOUS
- Kbc BOUNDARY CREEK FORMATION: mudstone, bituminous, bentonitic; marine
- LOWER CRETACEOUS**
- Khr HORTON RIVER FORMATION: shale, silty, concretionary; marine
 - Kp PARSONS SANDSTONE: sandstone, shale and siltstone; marine and nonmarine
- JURASSIC AND CRETACEOUS**
JURASSIC AND LOWER CRETACEOUS
- JkH HUSKY FORMATION: shale and siltstone; offshore marine; may include equivalents of Kingak Formation
- CAMBRIAN TO DEVONIAN**
UPPER CAMBRIAN TO LOWER DEVONIAN
- Cdb LIMESTONE AND DOLOMITE; marine; includes Vunta and Gossage Formations
 - Cdr ROAD RIVER FORMATION: shale and limestone; marine
- PROTEROZOIC PALEOZOIC**
- Pu ?HELIKIAN: Argillite, algal dolomite and quartzite; marine
- Geological boundary (approximate)
 Structure contours on pre-Mesozoic unconformity, in feet 5000
 Fault (solid circle indicates downthrow side; assumed projection under cover of younger deposits)
 Pingo (dry and abandoned, suspended gas, suspended oil, suspended gas and oil)
 Line of section

Geology by D.K. Norris, 1975

ACKNOWLEDGMENTS

Geological synthesis based on field observations and/or paleontological determinations made by the following geologists and industry geological departments, listed alphabetically, with corresponding years of field activity where applicable: Geological Survey of Canada - D.K. Norris, 1961; V.N. Rampton, 1969, 1970. Industry geological departments - Gulf Oil Canada Ltd.

SCHEMATIC STRATIGRAPHIC RELATIONSHIPS



Unconformity

Geological cartography by G.S. Whitman, Institute of Sedimentology and Petroleum Geology, Geological Survey of Canada

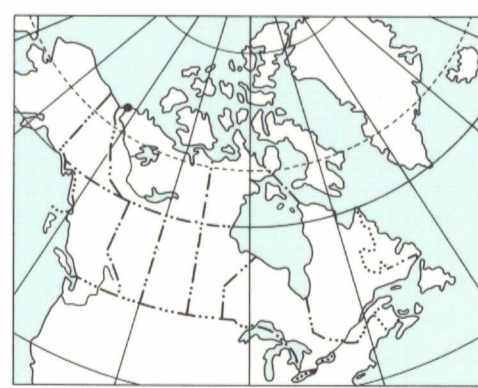
Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Base map at the same scale published by the Surveys and Mapping Branch in 1962

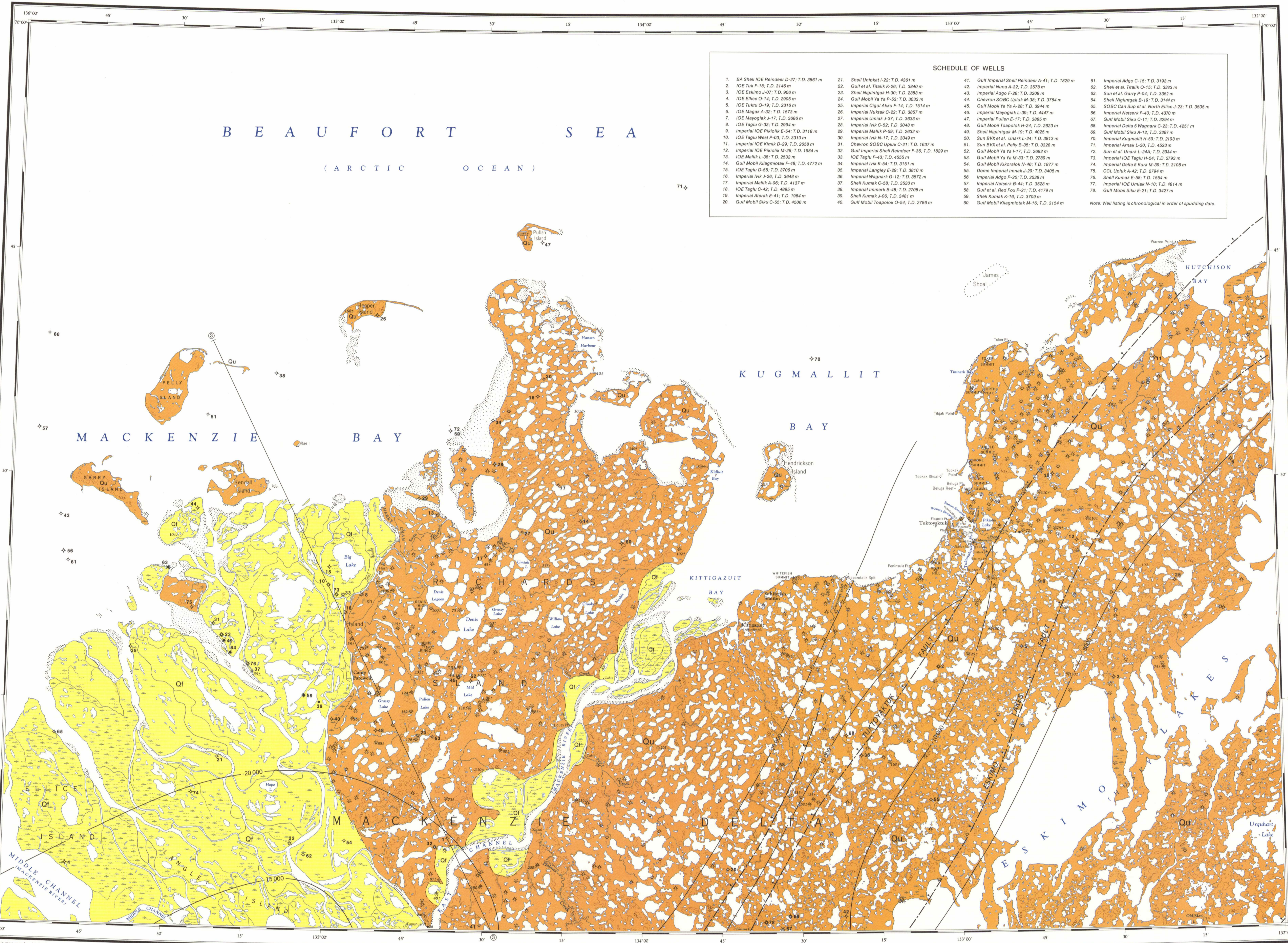
Copies of the topographical edition of this map can be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa

Magnetic declination 1980 varies from 37°52.2' easterly at centre of west edge to 39°54.3' easterly at centre of east edge. Mean annual change 8.3' westerly

Elevations in feet above mean sea level



INDEX MAP

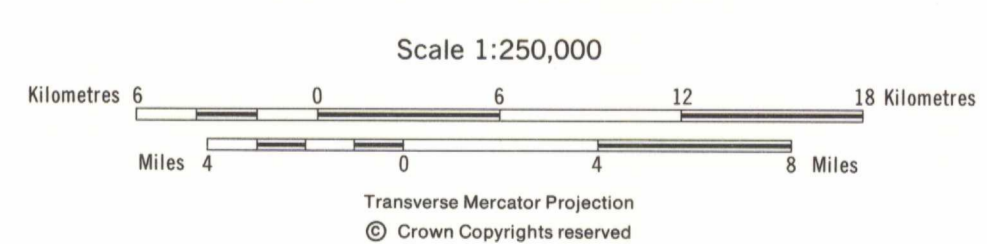


SCHEDULE OF WELLS

1. BA Shell IOE Reindeer D-27; T.D. 3881 m	21. Shell Unshkat E-22; T.D. 4381 m	41. Gulf Imperial Shell Reindeer A-41; T.D. 1829 m	61. Imperial Adgo C-15; T.D. 3193 m
2. IOE Tala F-18; T.D. 3146 m	22. Gulf et al. Tala K-28; T.D. 3840 m	42. Imperial Huma A-32; T.D. 3529 m	62. Shell et al. Tala O-15; T.D. 3383 m
3. IOE Eskimo J-07; T.D. 908 m	23. Shell Niglingtak H-30; T.D. 2383 m	43. Imperial Adgo F-28; T.D. 3352 m	63. Sun et al. Garry P-04; T.D. 3352 m
4. IOE Ellice O-14; T.D. 2905 m	24. Gulf Mobil Ya Ya P-53; T.D. 3033 m	44. Chevron SOBC Upluk M-38; T.D. 3764 m	64. Shell Niglingtak R-19; T.D. 3141 m
5. IOE Taku O-19; T.D. 2318 m	25. Imperial Cigo Akku F-14; T.D. 1514 m	45. Gulf Mobil Ya Ya P-26; T.D. 3044 m	65. SOBC Can Sun et al. North Etna J-23; T.D. 3305 m
6. IOE Magas A-32; T.D. 1573 m	26. Imperial Nuktak C-22; T.D. 3857 m	46. Imperial Mayogak L-39; T.D. 4447 m	66. Imperial Nektak F-40; T.D. 4370 m
7. IOE Mayogak J-17; T.D. 3686 m	27. Imperial Umak J-37; T.D. 3633 m	47. Imperial Pullen E-17; T.D. 3885 m	67. Gulf Mobil Siku C-11; T.D. 3294 m
8. IOE Taglu D-33; T.D. 2994 m	28. Imperial Iva C-52; T.D. 3048 m	48. Gulf Mobil Tsopoluk H-24; T.D. 2823 m	68. Imperial Delta S Wagnak C-23; T.D. 4251 m
9. Imperial IOE Pkiois E-54; T.D. 3118 m	29. Imperial Malik P-59; T.D. 2652 m	49. Shell Niglingtak M-19; T.D. 4025 m	69. Gulf Mobil Siku A-12; T.D. 2887 m
10. IOE Taglu West P-03; T.D. 3310 m	30. Imperial Iva N-17; T.D. 3049 m	50. Sun BIX et al. Unak L-24; T.D. 3813 m	70. Imperial Kugmali H-59; T.D. 2193 m
11. Imperial IOE Kima O-29; T.D. 2658 m	31. Chevron SOBC Upluk C-21; T.D. 1837 m	51. Sun BIX et al. Parly B-35; T.D. 3328 m	71. Imperial Anak L-30; T.D. 4533 m
12. Imperial IOE Pkiois M-26; T.D. 1984 m	32. Gulf Imperial Shell Reindeer F-36; T.D. 1929 m	52. Gulf Mobil Ya Ya P-17; T.D. 2982 m	72. Sun et al. Unak L-24A; T.D. 3954 m
13. IOE Malik L-38; T.D. 2532 m	33. IOE Taglu F-43; T.D. 4555 m	53. Gulf Mobil Ya Ya M-33; T.D. 2789 m	73. Imperial IOE Taglu H-54; T.D. 2793 m
14. Gulf Mobil Kitagmosak P-48; T.D. 4772 m	34. Imperial Iva K-54; T.D. 3151 m	54. Gulf Mobil Kitagmosak N-48; T.D. 1877 m	74. Imperial Delta S Kurk M-39; T.D. 3108 m
15. IOE Taglu D-55; T.D. 3706 m	35. Imperial Langley E-29; T.D. 3810 m	55. Dome Imperial Imak J-29; T.D. 3405 m	75. CCL Upluk A-42; T.D. 3794 m
16. Imperial Iva J-26; T.D. 3848 m	36. Imperial Wagnak G-12; T.D. 3572 m	56. Imperial Adgo P-25; T.D. 2528 m	76. Shell Kumak E-58; T.D. 1554 m
17. Shell Kumak C-58; T.D. 3530 m	37. Shell Kumak C-58; T.D. 3530 m	57. Imperial Nelson B-44; T.D. 3528 m	77. Imperial IOE Umak N-10; T.D. 4814 m
18. IOE Taglu C-42; T.D. 4895 m	38. Imperial Imak B-48; T.D. 2708 m	58. Gulf et al. Red Fox P-21; T.D. 4179 m	78. Gulf Mobil Siku E-31; T.D. 3427 m
19. Imperial Atrak E-41; T.D. 1984 m	39. Shell Kumak K-16; T.D. 3709 m	59. Shell Kumak K-16; T.D. 3709 m	
20. Gulf Mobil Siku C-55; T.D. 4508 m	40. Gulf Mobil Tsopoluk O-54; T.D. 2786 m	60. Gulf Mobil Kitagmosak M-16; T.D. 3154 m	

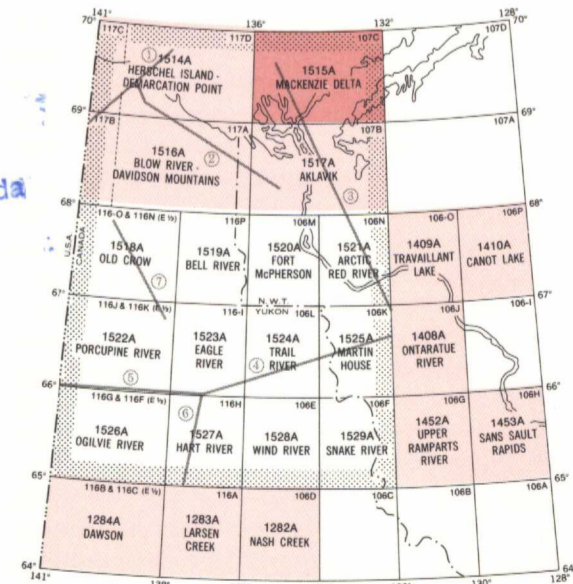
Note: Well listing is chronological in order of spudding date.

MAP 1515A
 GEOLOGY
MACKENZIE DELTA
 DISTRICT OF MACKENZIE



THE STRUCTURE SECTION DIAGRAM AND GEOTECTONIC CORRELATION CHART FOR THE AREA COVERED BY MAPS 1514A TO 1529A ARE AVAILABLE SEPARATELY AS SHEETS 1530A AND 1532A

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MAP 1515A
MACKENZIE DELTA
 DISTRICT OF MACKENZIE