

GEN-BC NORTHEAST 70(2)A
"COAL OCCURENCES IN
SELECTED WELLS
DRILLED IN THE FOOTHILLS
OF NORTHEASTERN BC."
by S.S. Cosburn - 1970 -

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CONTROL

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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COAL OCCURRENCES IN SELECTED WELLS DRILLED IN THE FOOTHILLS OF
NORTHEASTERN BRITISH COLUMBIA

By S. S. Cosburn

Coal has been mined sporadically in the Peace and Pine River valleys of the Rocky Mountain Foothills for many years. Within the past 10 years a number of wells drilled for oil and gas in the Foothills have intersected coal seams. These wells can provide a considerable amount of information regarding the subsurface occurrence of coal in the Cretaceous strata between the Peace River and the head of the Wapiti River. Figure 1 shows the general location of 18 wells that encountered seams of coal in the Gething Formation.

Although some coal occurs in the Dunvegan and Commoion Formations the Gething Formation is the main coal-bearing rock unit. The Gething has a maximum thickness of about 1,000 feet in the region extending from the Peace River southeastward to the Wapiti River. Seams are from 20 feet apart to more than 100 feet apart and up to 20 feet thick although the thickness of the average good seam probably is less than 10 feet.

Because of the amount of coal indicated by the wells, the area of the Foothills of Northeastern British Columbia is believed to contain a very large reserve of low and medium volatile bituminous coal much of which may be potentially suitable for coking. The coal measures are folded and faulted and underground mining may be necessary unless near-surface shallow dip-slopes are found where conditions are suitable for open-pit mining.

Rock samples and records from wells drilled in Northeastern British Columbia may be studied at the British Columbia Department of Mines and Petroleum Resources laboratory in Victoria. Another set of samples and all the core from British Columbia wells is available for study at the Department's field office at Charlie Lake (P.O. Box 1690, Fort St. John, B.C.).

The following list tabulates information about 18 wells in the Foothills of Northeastern British Columbia that encountered good seams of coal in the Gething Formation. The location of each well is designated, as is the elevation of the Kelly bushing and the depths in feet below KB to the coal seams. Some thickening and repetition of coal seams in wells is due to folding and faulting of the beds.

November 23, 1970
Department of Mines and Petroleum Resources,
Victoria, B.C.

<u>Well Index No.</u>	<u>Well Name</u>	<u>KB Elevation</u>	<u>Depth below KB to coal seam, feet</u>	<u>Well location N.T.S. Map No.</u>
8.	Husky Alcon IOE Quintette a-70-C	3199	340, 680, 805, 945, 1060, 1220, 1525, 1690, 1860, 2130, 2200.	93-I-15
9.	Triad BP Sukunka b-10-A	3853	1010, 1320, 1410, 1510, 1620, 1705, 1770, 2960, 3200, 3700, 3865, 4015, 4105, 4230, 4270, 4490, 4650, 4885, 4970, 5115, 5145, 5530, 5670, 5725, 5810, 5960, 6005, 7345, 7485, 7510, 7900.	93-P-5
10.	Triad BP Sukunka a-43-B	3060	20, 50, 350, 520, 570, 890, 1280, 1335, 1410, 1450, 1565, 1630, 2060, 2345, 2360, 2485, 2515, 2545, 2645, 2705, 2750, 2825, 3245, 3370, 3535, 3635, 3685, 3710, 3995, 4220, 4675, 4910, 4995, 5160, 5350, 5485, 5820, 5980, 6095, 6450.	93-P-5
11.	Triad BP Sukunka c-56-B	2264	130, 690, 815, 1135, 1280, 1370, 1455, 1570, 1650, 1700, 1790, 1895, 2020, 2160, 2250, 2380, 2490, 2530, 2595, 2710, 2780, 2850, 2915, 2940, 2960, 3000, 3050, 3200, 3550, 3790, 3930, 3990, 4035, 4100, 4125, 4175, 4250, 4300, 4520, 4720, 4770, 4860, 5000, 5120, 5200, 5510, 5575, 6000.	93-P-5
12.	CPOG et al Sukunka d-57-B	2252	680, 805, 905, 950, 1000, 1050, 1300, 2270, 2395, 2565, 3010, 3190, 3385, 3525, 3705, 3890, 4110, 4280, 4325, 4495, 4950, 5070, 5255, 5370, 5565, 5645, 5860, 6035, 6065, 6125, 6280, 6530, 6765, 7035.	93-P-5

Well Index
No.

Well Name

KB
Elevation

Depth below KB
to coal seam, feet

Well location
N.T.S. Map No.

13.	B.C. Government Pine River #1	2010	2420 - 2423, 2463 - 2466, 2497 - 2507, 2594 - 2598, 2672 - 2680, 2865 - 2867, 2875 - 2878, 2988 - 2990, 3037 - 3041, 3079 - 3082, 3117 - 3124, 3154 - 3156, 3240 - 3245, 3518 - 3520, 3554 - 3556, 3815 - 3818, 4363 - 4366, 4420 - 4429, 4493 - 4497, 4500 - 4503, 5120 - 5140 (shale and coal) 5276 - 5280, 5438 - 5440, 5815 - 5820, 5757 - 5966 (coal and shale) 5968 - 5972, 5990, 6017, 6373 - 6375, 6666 - 6667, 6769 - 6772, 6778 - 6781, 6832 - 6833.	93-P-12
14.	TGS Sun Falls a-64-B	3822	1330, 1400, 1510, 1580, 1680, 1840, 2090, 2270, 2320, 2440, 3100, 3220, 3270, 3730, 3980, 4330, 4710, 4780, 5700, 5780, 6010, 6600, 6740, 6850, 6920, 7000.	93-0-9
15.	Hunt Sands Sun Falls c-18-G	2970	30, 280, 580, 850, 1000, 1280, 1450, 1550, 1735, 1800, 1850, 1895, 1980, 2040, 2065, 2075, 2390, 2480, 2510, 2940, 3280, 3340, 3430, 3570, 3810, 4330, 4350, 4520.	93-0-9
16.	TGS Falls b-39-G	2729	560, 710, 945, 1045, 1215, 1510, 1850, 2190, 2770, 2920, 3030, 3140, 3310, 3400, 3910, 4140, 4510, 5000.	93-0-9

Well Index
No.

Well Name

KB
Elevation

Depth below KB
to coal seam, feet

Well location
N.T.S. Map No.

17.

TGS Falls c-32-F

2086

1010, 1160, 1380, 1440, 1490,
1560, 1710, 1750, 2370, 2470,
2625, 2660, 2815, 3090, 4480,
4620, 4815, 4920, 5000, 5210,
5310, 6040.

93-0-9

18.

FPC Richfield Brenot Creek 1

3052

1545, 1600, 1750, 1770, 1820,
2040, 2280, 2525, 2560, 2580,
2620, 3115, 3200, 3350, 3390.

94-B-1

<u>Well Index No.</u>	<u>Well Name</u>	<u>KB Elevation</u>	<u>Depth below KB to coal seam, feet</u>	<u>Well location N.T.S. Map No.</u>
1.	James PRP et al Grizzly c-2-A	3853	5715, 5895, 6150, 6625, 6735.	93-I-15
2.	Gray Oil PRP NW Grizzly c-25-A	4199	2720, 2940, 3150, 3215, 3720, 3840, 4010, 5500, 5850, 5885, 5990, 6040, 6100, 6220, 6410, 6590, 7050, 7235, 7300, 7340, 7590, 7985, 8160.	93-I-15
3.	Gray Oil PRP NW Grizzly d-59-A	4041	3150, 3290, 3505, 3650, 4290, 4450, 4660, 5040, 5300, 5500, 6660, 7050, 7304, 7400, 7840, 8020, 8330.	93-I-15
4.	Trans Era Wilrich Central Del Rio Stony Lake 1	3587	3350, 3395, 3435, 3515, 3535, 3551, 3557, 3750, 3860, 3870, 4050, 4110, 4200, 4613, 4950, 5422, 5520, 5515, 5580, 5640, 5593, 5606, 5633, 5600.	93-I-15
5.	Phillips Lone Mountain 1	3200	1420, 8985 - 8992, 8995 - 9008.	93-I-16
6.	Richfield C.F. des P-Caliph Grizzly Valley 1	3587	5920, 5940, 6470, 6505, 6530, 6550, 6630, 6690, 6710, 6730, 6810, 6825, 6835, 6860, 6890, 6910, 6930, 7020, 7110, 7140, 7350, 7670, 7700, 7720, 7740, 7890, 7920, 7935, 8010, 8120, 8130, 8150, 8270, 8290, 8390, 8400, 8420, 8440, 8460, 8610, 8640, 8710, 8750, 8810, 8820, 9090, 9130, 9380, 9880, 9940.	93-I-15
7.	Columbian Monkman Pass a-54-G	3606	1430, 1610, 1935, 1980, 2190, 2280, 2410, 3420, 4270, 4390, 9605, 9780, 9910, 10080, 10290, 10425.	93-I-15

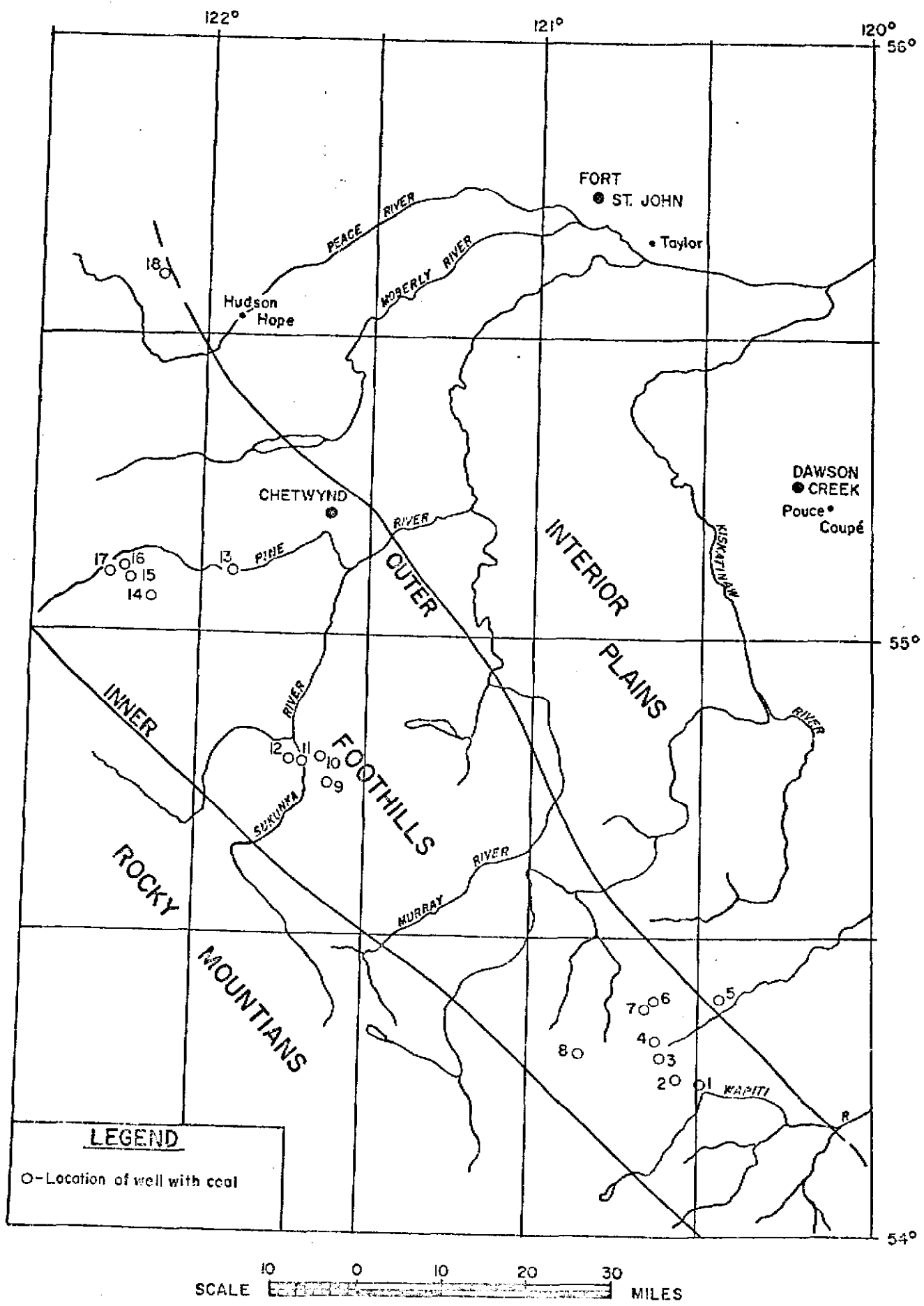


FIGURE 1. INTERIOR PLAINS MAP SHOWING THE LOCATION OF COAL-BEARING WELLS