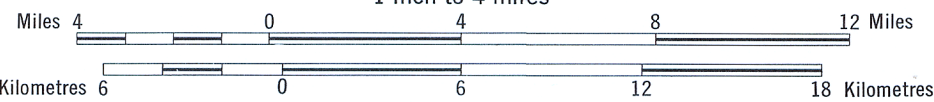


Figure 5  
Structure-isopachous map of Banff Formation, Pembina area, Alberta.

Scale 1:253,440  
1 inch to 4 miles



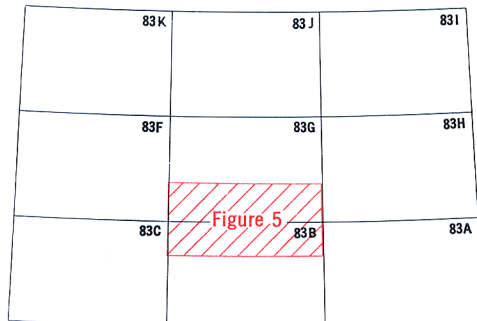
LEGEND

Structure contour (interval 100 feet) . . . . .  
Isopach (interval 100 feet) . . . . .  
Approximate outline of brown sucrosic dolomite facies  
(dolomite on hachured side) . . . . .  
Eastern limit of uneroded Banff Formation . . . . .  
Erosional edge of Banff-Exshaw Formation . . . . .

Geology by H.L. Martin, 1966  
To accompany GSC Paper 66-22, by H.L. Martin

Cartography by the Geological Survey of Canada, 1966  
Base-map prepared from map published by the Surveys and Mapping Branch

Note: For stratigraphic cross-section X-X', see Figure 3



N. T. S. REFERENCE

WELL SYMBOLS

Banff gas well . . . . .  
Other control wells . . . . .

Note: Well control as of January 4, 1966

BANFF DRILLSTEM TESTS

Well Name	Location (W. 5th mer) 1/4 sec. tp. rge.	Top Banff (Subsea)	Interval tested (Subsea)	Recovery (in maximum thousands of cubic feet of gas per day (mcf/d) and number of feet of recovered fluids)	Well Name	Location (W. 5th mer) 1/4 sec. tp. rge.	Top Banff (Subsea)	Interval tested (Subsea)	Recovery (in maximum thousands of cubic feet of gas per day (mcf/d) and number of feet of recovered fluids)	Well Name	Location (W. 5th mer) 1/4 sec. tp. rge.	Top Banff (Subsea)	Interval tested (Subsea)	Recovery (in maximum thousands of cubic feet of gas per day (mcf/d) and number of feet of recovered fluids)	
CAL STD HOMEGLEN 3-29	3 29 43 1	-2892	-2894 to -2929	210 drilling mud	TENN MARATHON A-1 PENDRYL 10-16-46-4	10 16 46 4	-3386	-3345 to -3518	621 mcf/d, 175 mud	C S IMP AL KEY 8-5-49-4	8 5 49 4	-3017	-3045 to -3090	15 drilling mud	
CALIFORNIA STD RIMBEY NO 1-13	1 13 43 2	-3042	-3104 to -3156	810 mcf/d, 690 gas cut mud	PLYMOUTH BUCK LK 12-18-46-4	12 18 46 4	-3481	-3498 to -3521	270 gas cut mud	CS IMP AL KEY 6-10-49-4	6 10 49 4	-2917	-2915 to -2940	50 oil and gas cut mud	
CDN SUP ET AL WILSON CK 6-18-43-4	6 18 43 4	-3918	-3941 to -4086	7000 mcf/d, 5 gas cut mud	WHITEHALL ET AL WENHAM 10-7-47-2	10 7 47 2	-3207	-3129 to -3236	175 gas cut mud				-2940 to -2980	110 gas cut mud	
CDN SUP IMP WILSON CK 10-27-43-4	10 27 43 4	-3694	-3677 to -3882	120 gas cut drilling mud	IMPERIAL PROXON LAKE 1	4 36 47 3	-2912	-2889 to -2950	30 drilling mud	CITIES SERVICE ALSIKE 6-14-49-4	6 14 49 4	-2848	-2838 to -2909	40 mud	
IMP AMERADA WILSON 3-16-43-5	3 16 43 5	-4178	-4204 to -4238	13 mud	IMP CAN SUPERIOR NORBUCK 2-6-47-4	2 6 47 4	-3338	-3400 to -3460	30 mud	CITIES SERVICE ALSIKE 16-18-49-4	16 18 49 4	-3048	-3045 to -3073	10 gas cut mud, 35 gassy oil cut mud, 315 heavy black oil	
CANNERRA ET AL WILLER 6-31-43-7	6 31 43 7	-4603	-4626 to -4690	400 heavily oil and gas cut mud	WINCAN SUPRICE HILL 10-4-47-5	10 4 47 5	-3565	-3591 to -3613	300 mcf/d, 10 distillate				-3153 to -3183	220 oil and gas cut mud	
NEW CONCORD MAR JUPPT HOADLEY 12-22	12 22 44 3	-3361	-3175 to -3240	108 mcf/d, 140 oil and gas cut mud, 400 clean oil	PAN AM A-1 CARWOOD 6-25-47-5	6 25 47 5	-3465	-3491 to -3551	120 sulphurous mud				-3153 to -3223	40 salty oil cut mud	
			-3356 to -3381	305 mcf/d, 65 gassy mud	IMP CAN SUPERIOR BUCK MT 16-12-47-6	16 12 47 6	-3550	-3560 to -3590	10 mud	C S IMP ALSIKE 14-21-49-4	14 21 49 4	-2981	-2975 to -3005	10 drilling mud	
			-3360 to -3376	277 mcf/d				-3565 to -3620	500 mcf/d, 25 sulphurous mud	WHITE ROSE SUPSTST PEM IN 8-14-49-5	8 14 49 5	-3156	-3162 to -3329	430 mcf/d, 220 muddy heavy black oil	
			-3388 to -3408	50 mcf/d, 30 oil flecked mud				-3620 to -3630	4800 salty sulphur mud	OLWELL OPER DRAY VALLEY NO 4-16	4 16 49 7	-3020	-3712 to -3732	150 oil cut mud	
LUSCAR PENDRYL 6-20-44-4	6 20 44 4	-3734	-3497 to -3523	30 drilling mud	GRT PLNS BUCK LK F PEM IN 6-20-47-6	6 20 47 6	-3828	-3835 to -3890	65 mcf/d, 100 gasified drilling mud	SOCONY SEABOARD DRAYTON VALLEY 33-7	7 33 49 7	-3331	-3543 to -3566	10 mud	
UNION BAPTISTE RIVER 11-1	11 1 44 9	-5336	-3497 to -3523	30 drilling mud	MOBIL BC 35-8 PEM IN 8-35-47-7	8 35 47 7	-3853	-3871 to -3891	5 mud	TEXACO TELFORDVILLE 4-20-50-2	4 20 50 2	-2462	-2480 to -2571	470 mcf/d, 475 gasified mud	
COLORADO ET AL PENDRYL 6-4-45-4	6 4 45 4	-3607	-3497 to -3523	30 drilling mud	CHEE SCURRY RAINBOW CM WAR 7-10A	7 10 48 3	-2902	-2899 to -2946	90 oil, 250 black mud, 270 oily gas cut mud				-2379	-2396 to -2371	8400 mcf/d, 2 condensate
COLORADO ET AL PENDRYL 6-13-45-5	6 13 45 5	-3694	-3677 to -3743	285 gas cut mud				-2946 to -2961	210 water, 10 mud				-2379	-2396 to -2371	90 gas and oil cut mud
IMP CDN SUP PENDRYL 4-22-45-5	4 22 45 5	-3734	-3707 to -3797	30 mud	CITIES SERVICE KEYSTONE 8-32	8 32 48 4	-3131	-3122 to -3156	20 drilling mud	SUPSTST ST FRANCIS 10-12-50-3	10 12 50 3	-2522	-2510 to -2680	180 mud	
AMUREX CDN DELHI ET AL KNOB HILL 1	11 12 46 3	-2961	-3801 to -3861	30 mud	SUPERTEST ET AL CARWOOD 16-7-48-5	16 7 48 5	-3453	-3454 to -3534	250 gas cut mud	IMP CDN SUP NORTLEIGH 15-34-50-6	15 34 50 6	-3117	-3115 to -3182	150 gassy oil cut mud, 170 heavily oil cut mud	
IMPERIAL BATTLE LAKE 1	16 12 46 3	-2953	-2707 to -3797	30 mud	IMP CDN SUP BUCK CRK NO 14-20-46-4	14 20 46 6	-3378	-3530 to -3632	75 mud	WR ET AL LOB E 11-32-50-7	11 32 50 7	-3361	-3380 to -3571	100 gassy mud	
			-2962 to -2963	50 mud	MOBIL VO 7-6 PEM IN 6-7-48-7	6 7 48 7	-3899	-4061 to -4085	10 mud	WR CRAB ET WHITEST E LOB 10-33	10 33 49 7	-3340	-3338 to -3416	20 oil cut mud	
			-2962 to -2963	750 mcf/d, 60 mud	MOBIL OIL 520 V GROVE 90-2	2 20 48 7	-3844	-3940 to -3959	25 sulphurous cut mud	PAN AM LOB X-5 PEM 6-13-50-8	6 13 50 8	-3561	-3547 to -3607	420 water cut mud, salty, slightly gas cut	
			-2986 to -3003	30 mud	TEXACO MOBIL ST FRANCIS A16-20-49-3	16 20 49 3	-2715	-2711 to -2826	490 gas cut mud	PAN AM LOB E-24 PEM 6-23MU-50-8	6 23 50 8	-3533	-3526 to -3589	50 mud	
			-2986 to -3003	40 mud				-2734 to -2759	30 oil flecked mud						
			-3000 to -3072	48 mud	CS IMP ALSIKE 8-1-49-4	8 1 49 4	-2969	-2968 to -2979	5 drilling mud						
								-3008 to -3045	5 drilling mud						

Note: Water cushion use and recovery not listed

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