Table 2
upper Bakken shale member Resource Area, Volume, and Oil In Place (barrels)
April 7, 2008

	Mean Values						
County	acres	acre-ft	porosity	Sw	Bo	OOIP per County	OOIP per 640
McKenzie	1,826,692	26,799,229	7.06	30	1.400	7,339,167,061	2,571,351
Williams	1,373,805	22,163,100	7.06	30	1.500	5,664,893,694	2,639,044
Dunn	1,233,355	18,315,725	7.06	30	1.400	5,015,896,693	2,602,798
Mountrail	1,241,503	20,850,610	7.06	30	1.600	4,996,332,036	2,575,630
Burke	570,162	7,377,558	7.06	30	1.200	2,357,132,090	2,645,853
Divide	806,065	9,061,937	7.06	30	1.500	2,316,233,185	1,839,044
Stark	738,655	6,023,577	7.06	30	1.500	1,539,627,844	1,333,995
Billings	492,496	4,156,380	7.06	30	1.300	1,225,813,668	1,592,949
Ward	367,685	4,331,664	7.06	30	1.600	1,037,975,913	1,806,723
McLean	193,848	3,325,726	7.06	30	1.400	910,774,749	3,006,969
Grant	78,557	244,554	7.06	30	1.500	62,508,094	509,248
Golden Valley	63,599	191,189	7.06	30	1.350	54,297,863	546,403
Slope	28,357	38,655	7.06	30	1.400	10,586,089	238,919
					Total	32,531,238,982	

	Minimum Values						
County	acres	acre-ft	porosity	Sw	Bo	OOIP per County	OOIP per 640
McKenzie	1,826,692	26,799,229	3.27	40	1.600	2,549,476,943	893,235
Williams	1,373,805	22,163,100	3.27	40	1.640	2,057,005,427	958,275
Mountrail	1,241,503	20,850,610	3.27	40	1.640	1,935,190,345	997,599
Dunn	1,233,355	18,315,725	3.27	40	1.600	1,742,420,204	904,159
Burke	570,162	7,377,558	3.27	40	1.250	898,362,087	1,008,401
Divide	806,065	9,061,937	3.27	40	1.660	830,924,783	659,738
Stark	738,655	6,023,577	3.27	40	1.600	573,037,832	496,503
Billings	492,496	4,156,380	3.27	40	1.400	451,893,441	587,237
Ward	367,685	4,331,664	3.27	40	1.640	402,031,120	699,784
McLean	193,848	3,325,726	3.27	40	1.600	316,384,571	1,044,560
Grant	78,557	244,554	3.27	40	1.600	23,265,040	189,538
Golden Valley	63,599	191,189	3.27	40	1.500	19,400,884	195,232
Slope	28,357	38,655	3.27	40	1.500	3,922,551	88,529
					Total	11,803,315,229	

	Maximum Values						
County	acres	acre-ft	porosity	Sw	Bo	OOIP per County	OOIP per 640
McKenzie	1,826,692	26,799,229	10.85	20	1.200	15,038,708,708	5,268,963
Williams	1,373,805	22,163,100	10.85	20	1.200	12,437,089,556	5,793,934
Dunn	1,233,355	18,315,725	10.85	20	1.200	10,278,088,597	5,333,401
Mountrail	1,241,503	20,850,610	10.85	20	1.410	9,957,931,770	5,133,355
Divide	806,065	9,061,937	10.85	20	1.200	5,085,214,500	4,037,561
Burke	570,162	7,377,558	10.85	20	1.200	4,140,005,371	4,647,106
Stark	738,655	6,023,577	10.85	20	1.300	3,120,187,177	2,703,456
Billings	492,496	4,156,380	10.85	20	1.150	2,433,811,594	3,162,746
Ward	367,685	4,331,664	10.85	20	1.410	2,068,736,273	3,600,887
McLean	193,848	3,325,726	10.85	20	1.200	1,866,271,205	6,161,590
Grant	78,557	244,554	10.85	20	1.300	126,677,986	1,032,035
Golden Valley	63,599	191,189	10.85	20	1.175	109,571,000	1,102,619
Slope	28,357	38,655	10.85	20	1.225	21,249,293	479,578
					Total	66,683,543,030	

Table 3
middle Bakken member Resource Area, Volume, and Oil In Place (barrels)
April 7, 2008

	Middle Bakken OOIP Mean Values						
County	acres	acre-ft	porosity	Sw	Bo	OOIP per County	OOIP per 640
McKenzie	1,818,731	58,794,758	6.70	30	1.400	15,389,491,328	5,415,465
Williams	1,373,805	62,906,006	5.80	29	1.500	13,435,647,982	6,259,122
Mountrail	1,241,503	52,667,884	6.20	24	1.600	12,033,194,776	6,203,161
Divide	805,209	48,861,367	5.50	32	1.500	9,465,290,116	7,523,245
Burke	570,162	29,551,776	6.00	25	1.200	8,597,350,325	9,650,423
Dunn	1,233,355	37,991,535	4.90	28	1.400	7,386,142,503	3,832,742
Ward	367,685	8,846,722	6.20	24	1.600	2,021,237,904	3,518,211
Billings	421,876	5,206,097	7.00	27	1.300	1,583,245,050	2,401,835
McLean	193,848	5,047,835	4.90	28	1.400	981,377,177	3,240,067
Stark	377,719	2,886,374	7.00	38	1.500	653,114,200	1,106,626
Golden Valley	11,042	37,000	6.85	29	1.350	10,413,908	603,581
Grant	0	0	7.00	38	1.500		
Slope	0	0	7.00	33	1.400		
					Total	71,556,505,269	

	Middle Bakken OOIP Minimum Values						
County	acres	acre-ft	porosity	Sw	Bo	OOIP per County	OOIP per 640
Burke	722,276	34,748,484	6.00	25	1.250	9,704,834,583	8,599,341
Mountrail	1,242,071	52,681,279	5.00	30	1.640	8,722,285,173	4,494,318
Williams	1,373,805	62,906,006	4.00	36	1.640	7,617,948,034	3,548,892
McKenzie	1,818,731	58,794,758	5.00	50	1.600	7,127,027,052	2,507,956
Divide	826,342	50,317,565	5.00	50	1.660	5,878,970,891	4,553,252
Dunn	1,309,265	40,238,883	4.00	43	1.600	4,448,468,925	2,174,518
Ward	385,880	10,092,248	5.00	30	1.640	1,670,944,021	2,771,339
Billings	421,876	5,206,097	4.00	42	1.400	669,301,843	1,015,353
McLean	193,848	5,047,835	4.00	43	1.600	558,045,681	1,842,416
Stark	377,719	2,886,374	6.00	50	1.600	419,859,129	711,402
Golden Valley	11,042	37,000	4.50	46	1.500	4,650,139	269,518
Grant	0	0	6.00	50	1.600		
Slope	0	0	5.00	46	1.500		
					Total	46,822,335,471	

	Middle Bakken OOIP Maximum Values						
County	acres	acre-ft	porosity	Sw	Bo	OOIP per County	OOIP per 640
McKenzie	1,818,731	58,794,758	9.00	25	1.200	25,657,297,387	9,028,640
Williams	1,373,805	62,906,006	7.00	20	1.200	22,774,490,477	10,609,709
Dunn	1,309,265	40,238,883	9.00	20	1.200	18,730,395,473	9,155,865
Mountrail	1,242,071	52,681,279	8.00	20	1.410	18,550,983,825	9,558,735
Divide	826,342	50,317,565	7.00	25	1.200	17,078,410,439	13,227,198
Burke	722,276	34,748,484	6.00	25	1.200	10,109,202,690	8,957,647
Ward	385,880	10,092,248	8.00	20	1.410	3,553,845,683	5,894,219
Billings	421,876	5,206,097	10.00	25	1.150	2,634,058,978	3,995,954
McLean	193,848	5,047,835	9.00	20	1.200	2,349,666,026	7,757,542
Stark	377,719	2,886,374	8.00	25	1.300	1,033,499,393	1,751,144
Golden Valley	11,042	37,000	9.50	25	1.175	17,405,957	1,008,834
Grant	0	0	8.00	25	1.300		
Slope	0	0	9.00	25	1.225		
					Total	122,489,256,330	

Table 4
lower Bakken shale member Resource Area, Volume, and Oil In Place (barrels)
April 7, 2008

	Lower Bakken OOIP Mean Values						
County	acres	acre-ft	porosity	Sw	Bo	OOIP per County	OOIP per 640
Mountrail	1,241,503	41,303,562	6.83	30	1.500	10,213,269,025	5,264,982
McKenzie	1,674,220	36,651,456	6.83	30	1.400	9,710,279,191	3,711,924
Williams	1,373,805	30,898,898	6.83	30	1.600	7,162,943,418	3,336,924
Dunn	1,224,334	18,304,207	6.83	30	1.200	5,657,677,494	2,957,455
Divide	805,209	20,444,318	6.83	30	1.500	5,055,334,474	4,018,104
Burke	570,162	16,984,118	6.83	30	1.600	3,937,236,901	4,419,501
Ward	367,685	4,792,938	6.83	30	1.200	1,481,457,090	2,578,656
McLean	193,848	4,772,148	6.83	30	1.300	1,361,567,191	4,495,284
Billings	331,414	1,253,936	6.83	30	1.400	332,212,438	641,542
Stark	241,258	633,346	6.83	30	1.500	156,609,501	415,447
Golden Valley	15,427	5,419	6.83	30	1.400	1,435,639	59,560
Grant	0	0	6.83	30	1.500		
Slope	0	0	6.83	30	1.450		
					Total	45,070,022,363	

	Lower Bakken OOIP Minimum Values						
County	acres	acre-ft	porosity	Sw	Bo	OOIP per County	OOIP per 640
Mountrail	1,241,503	41,303,562	2.90	40	1.640	3,399,716,377	1,752,568
McKenzie	1,674,220	36,651,456	2.90	40	1.600	3,092,219,215	1,182,055
Williams	1,373,805	30,898,898	2.90	40	1.640	2,543,303,329	1,184,822
Burke	570,162	16,984,118	2.90	40	1.250	1,834,138,052	2,058,798
Divide	805,209	20,444,318	2.90	40	1.660	1,662,507,337	1,321,402
Dunn	1,224,334	18,304,207	2.90	40	1.600	1,544,293,899	807,253
McLean	193,848	4,772,148	2.90	40	1.600	402,617,782	1,329,263
Ward	367,685	4,792,938	2.90	40	1.640	394,509,058	686,691
Billings	331,414	1,253,936	2.90	40	1.400	120,905,594	233,483
Stark	241,258	633,346	2.90	40	1.600	53,434,271	141,748
Golden Valley	15,427	5,419	2.90	40	1.500	487,655	20,231
Grant	0	0	2.90	40	1.600		
Slope	0	0	2.90	40	1.500		
					Total	15,048,132,568	

	Lower Bakken OOIP Maximum Values						
County	acres	acre-ft	porosity	Sw	Bo	OOIP per County	OOIP per 640
McKenzie	1,674,220	36,651,456	10.76	20	1.200	20,396,799,238	7,797,034
Mountrail	1,241,503	41,303,562	10.76	20	1.410	19,562,323,329	10,084,458
Williams	1,373,805	30,898,898	10.76	20	1.200	17,195,458,953	8,010,665
Divide	805,209	20,444,318	10.76	20	1.200	11,377,410,361	9,043,046
Dunn	1,224,334	18,304,207	10.76	20	1.200	10,186,422,897	5,324,780
Burke	570,162	16,984,118	10.76	20	1.200	9,451,784,214	10,609,515
McLean	193,848	4,772,148	10.76	20	1.200	2,655,734,766	8,768,044
Ward	367,685	4,792,938	10.76	20	1.410	2,270,046,350	3,951,292
Billings	331,414	1,253,936	10.76	20	1.150	728,164,662	1,406,173
Stark	241,258	633,346	10.76	20	1.300	325,349,039	863,072
Golden Valley	15,427	5,419	10.76	20	1.175	3,079,774	127,769
Grant	0	0	10.76	20	1.300		
Slope	0	0	10.76	20	1.225		
					Total	94,152,573,583	

Table 1
Bakken Formation Oil In Place and Recoverable Reserves (barrels)
April 7, 2008

	Mean Values				
County	OOIP per County	OOIP per 640	EUR per County	EUR per 640	Rec Factor
McKenzie	32,438,937,580	11,698,740	382,654,320	138,000	1.18
Mountrail	27,242,795,837	14,043,773	424,826,873	219,000	1.56
Williams	26,263,485,095	12,235,090	474,392,108	221,000	1.81
Dunn	18,059,716,691	9,392,995	294,169,921	153,000	1.63
Divide	16,836,857,774	13,380,393	123,315,660	98,000	0.73
Burke	14,891,719,317	16,715,777	187,975,278	211,000	1.26
Ward	4,540,670,907	7,903,591			
McLean	3,253,719,118	10,742,320			
Billings	3,141,271,156	4,636,325	115,858,434	171,000	3.69
Stark	2,349,351,546	2,856,068	86,371,150	105,000	3.68
Golden Valley	66,147,411	1,209,544			
Grant	62,508,094	509,248			
Slope	10,586,089	238,919			
Total	149,157,766,614		2,089,563,745		

	Minimum Values				
County	OOIP per County	OOIP per 640	EUR per County	EUR per 640	Rec Factor
Mountrail	14,057,191,895	7,244,484	100,900,765	52,000	0.72
McKenzie	12,768,723,210	4,583,246	78,006,785	28,000	0.61
Burke	12,437,334,722	11,666,540	210,015,569	197,000	1.69
Williams	12,218,256,790	5,691,989	122,354,526	57,000	1.00
Divide	8,372,403,011	6,534,392	19,219,240	15,000	0.23
Dunn	7,735,183,028	3,885,930	39,811,228	20,000	0.51
Ward	2,467,484,199	4,157,814			
McLean	1,277,048,035	4,216,239			
Billings	1,242,100,878	1,836,073	10,147,480	15,000	0.82
Stark	1,046,331,232	1,349,654	62,020,731	80,000	5.93
Golden Valley	24,538,677	484,981			
Grant	23,265,040	189,538			
Slope	3,922,551	88,529			
Total	73,673,783,268		642,476,323		

	Maximum Values				
County	OOIP per County	OOIP per 640	EUR per County	EUR per 640	Rec Factor
McKenzie	61,092,805,333	22,094,637	904,171,770	327,000	1.48
Williams	52,407,038,986	24,414,309	804,963,984	375,000	1.54
Mountrail	48,071,238,924	24,776,548	739,212,820	381,000	1.54
Dunn	39,194,906,967	19,814,046	585,528,689	296,000	1.49
Divide	33,541,035,300	26,307,804	244,789,672	192,000	0.73
Burke	23,700,992,275	24,214,268	219,251,819	224,000	0.93
Ward	7,892,628,307	13,446,399			
McLean	6,871,671,997	22,687,176			
Billings	5,796,035,234	8,564,872	206,400,129	305,000	3.56
Stark	4,479,035,609	5,317,672	108,655,741	129,000	2.43
Golden Valley	130,056,732	2,239,223			
Grant	126,677,986	1,032,035			
Slope	21,249,293	479,578			
Total	283,325,372,943		3,812,974,625		