



Fig DR1. Dip and strike seismic lines (a and b respectively) across erosional depressions interpreted as pockmarks showing venting to the seabed. c) Dip map showing cluster of 12 pockmarks

Table DR1

Stratigraphic Traps										
			Thickness (m)						GT Methane	
Amplitude Anomaly Name	Area (m2)	Min Thickness	Most Likely	Maximum Thickness	Volume (m3)	Porosity (Φ)	Gas Saturation (%)	Min Gt Carbon	Most Likely	Max GT Carbon
1	32951654.00	2.00	5.00	10.00	329516540.00	40%	12%	5.84043E-05	0.001752129	0.020441506
2	31219002.00	2.00	5.00	10.00	312190020.00	40%	12%	5.53333E-05	0.001659999	0.019366658
3	99762768.00	2.00	5.00	10.00	997627680.00	40%	12%	0.000176822	0.005304658	0.061887674
4	57194844.00	2.00	5.00	10.00	571948440.00	40%	12%	0.000101374	0.003041205	0.03548073
5	15464037.00	2.00	5.00	10.00	154640370.00	40%	12%	2.74088E-05	0.000522265	0.009593091
6	5076671.50	2.00	5.00	10.00	50766715.00	40%	12%	8.99801E-06	0.00026994	0.003149305
7	2712929.50	2.00	5.00	10.00	27129295.00	40%	12%	4.80846E-06	0.000144254	0.001682961
8	8759484.00	2.00	5.00	10.00	87594840.00	40%	12%	1.55255E-05	0.000465766	0.005433932
9	5358526.50	2.00	5.00	10.00	53585265.00	40%	12%	9.49758E-06	0.000284927	0.003324153
10	78185304.00	2.00	5.00	10.00	781853040.00	40%	12%	0.000138578	0.004157325	0.048502128
11	20362130.00	2.00	5.00	10.00	203621300.00	40%	12%	3.60903E-05	0.00108271	0.012631615
12	126098328.00	2.00	5.00	10.00	1260983280.00	40%	12%	0.0002235	0.006704991	0.078224896
13	6069167.50	2.00	5.00	10.00	60691675.00	40%	12%	1.07571E-05	0.000322714	0.003764998
14	1186517.50	2.00	5.00	10.00	11865175.00	40%	12%	2.10301E-06	6.30904E-05	0.000736054
15	757551.88	2.00	5.00	10.00	7575518.80	40%	12%	1.3427E-06	4.02811E-05	0.000469946
16	21641376.00	2.00	5.00	10.00	216413760.00	40%	12%	3.83577E-05	0.001150731	0.013425193
17	6302639.50	2.00	5.00	10.00	63026395.00	40%	12%	1.11709E-05	0.000335128	0.003909832
18	1015081.50	2.00	5.00	10.00	10150815.00	40%	12%	1.79915E-06	5.39746E-05	0.000629704
19	749442.56	2.00	5.00	10.00	7494425.63	40%	12%	1.32833E-06	3.98499E-05	0.000464915
20	8877822.00	2.00	5.00	10.00	88778220.00	40%	12%	1.57353E-05	0.000472058	0.005507343
21	1509588.50	2.00	5.00	10.00	15095885.00	40%	12%	2.67563E-06	8.02689E-05	0.000936471
22	2451968.00	2.00	5.00	10.00	24519680.00	40%	12%	4.34593E-06	0.000130378	0.001521074
23	6405889.00	2.00	5.00	10.00	64058890.00	40%	12%	1.1354E-05	0.000340619	0.003973883
24	86409280.00	2.00	5.00	10.00	864092800.00	40%	12%	0.000153154	0.004594616	0.053603859
25	21851336.00	2.00	5.00	10.00	218513360.00	40%	12%	3.87298E-05	0.001161895	0.013555441
26	42289396.00	2.00	5.00	10.00	422893960.00	40%	12%	7.49547E-05	0.002248642	0.026234159
27	69743694.00	2.00	5.00	10.00	697436940.00	40%	12%	0.000123615	0.003708462	0.043265389
28	5408529.50	2.00	5.00	10.00	54085295.00	40%	12%	9.58621E-06	0.000287586	0.003355173
29	9050464.13	2.00	5.00	10.00	90504641.25	40%	12%	1.60413E-05	0.000481238	0.005614441
30	1615522.38	2.00	5.00	10.00	16155223.75	40%	12%	2.86339E-06	8.59017E-05	0.001002187
31	15987489.00	2.00	5.00	10.00	159874890.00	40%	12%	2.83366E-05	0.000850098	0.009917813
32	40037016.00	2.00	5.00	10.00	400370160.00	40%	12%	7.09626E-05	0.002128877	0.024836899
33	14781602.00	2.00	5.00	10.00	147816020.00	40%	12%	2.61993E-05	0.000785978	0.009169743
34	11983642.00	2.00	5.00	10.00	119836420.00	40%	12%	2.12401E-05	0.000637203	0.007434033
35	65160092.00	2.00	5.00	10.00	651600920.00	40%	12%	0.000115491	0.003464739	0.040421959
36	12999455.00	2.00	5.00	10.00	129994550.00	40%	12%	2.30405E-05	0.000691216	0.008064191
37	14935866.00	2.00	5.00	10.00	149358660.00	40%	12%	2.64727E-05	0.000794181	0.009265441
38	4407251.50	2.00	5.00	10.00	44072515.00	40%	12%	7.81152E-06	0.000234346	0.002734031
39	1885327.25	2.00	5.00	10.00	18853272.50	40%	12%	3.3416E-06	0.000100248	0.00116956
40	27906996.00	2.00	5.00	10.00	279069960.00	40%	12%	4.9463E-05	0.001483891	0.01731206
41	36258808.00	2.00	5.00	10.00	362588080.00	40%	12%	6.4266E-05	0.001927979	0.022493094
42	12109308.00	2.00	5.00	10.00	121093080.00	40%	12%	2.14628E-05	0.000643885	0.00751199
43	52129700.00	2.00	5.00	10.00	521297000.00	40%	12%	9.23959E-05	0.002771878	0.032338576
44	24157786.00	2.00	5.00	10.00	241577860.00	40%	12%	4.28178E-05	0.001284535	0.014986244
45	42855052.00	2.00	5.00	10.00	428550520.00	40%	12%	7.59573E-05	0.00227872	0.028595063
46	11346379.00	2.00	5.00	10.00	113463790.00	40%	12%	2.01106E-05	0.000603318	0.007038708
47	8579450.00	2.00	5.00	10.00	85794500.00	40%	12%	1.52064E-05	0.000456193	0.005322248
48	1857301.88	2.00	5.00	10.00	18573018.75	40%	12%	3.29193E-06	9.87578E-05	0.001152174
49	22420638.00	2.00	5.00	10.00	224206380.00	40%	12%	3.97389E-05	0.001192166	0.013908607
50	16033856.00	2.00	5.00	10.00	160338560.00	40%	12%	2.84188E-05	0.000852564	0.009946577
51	28053974.00	2.00	5.00	10.00	280539740.00	40%	12%	4.97235E-05	0.001491706	0.017403238
52	12586933.00	2.00	5.00	10.00	125869330.00	40%	12%	2.23094E-05	0.000669281	0.007808284
53	10771273.00	2.00	5.00	10.00	107712730.00	40%	12%	1.90913E-05	0.000572738	0.006681942
54	269225344.00	2.00	5.00	10.00	2692253440.00	40%	12%	0.000477181	0.014315444	0.167013511
							Totals in Gt	0.002720585	0.0816175	0.952204697
Free Gas Accumulations Trapped By Hydrate										
Amplitude Anomaly Name	Area (m2)	Min Thickness	Thickness (m)	Maximum Thickness	Volume (m3)	Porosity (Φ)	Gas Saturation (%)	Minimum	GT Methane	Maximum
1	68584896.00	2.00	5.00	10.00	342824480.00	40%	12%	0.000121526	0.003645782	0.212670618
2	7321637	2.00	5.00	10.00	36608185.00	40%	12%	1.2977E-05	0.000389311	0.022709829
							Totals in Gt	0.000134503	0.0040351	0.235380447