

Appendix A:

Appendix A1: Figure

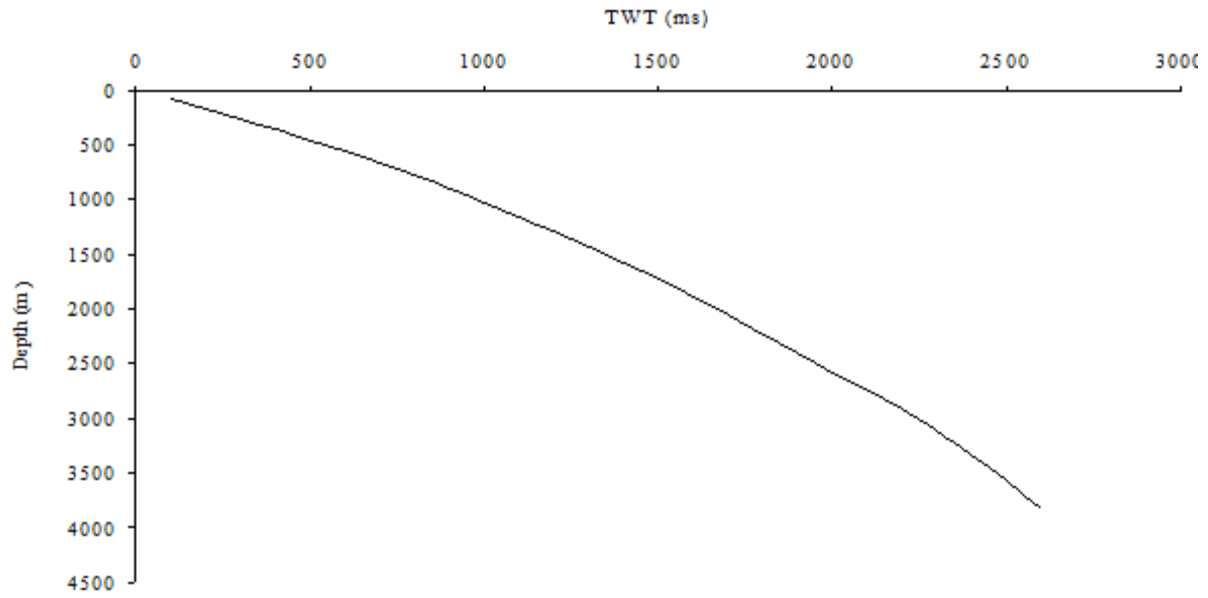


Figure 1. T-Z curve for the Rashidpur structure (After BOGMC, 1989)

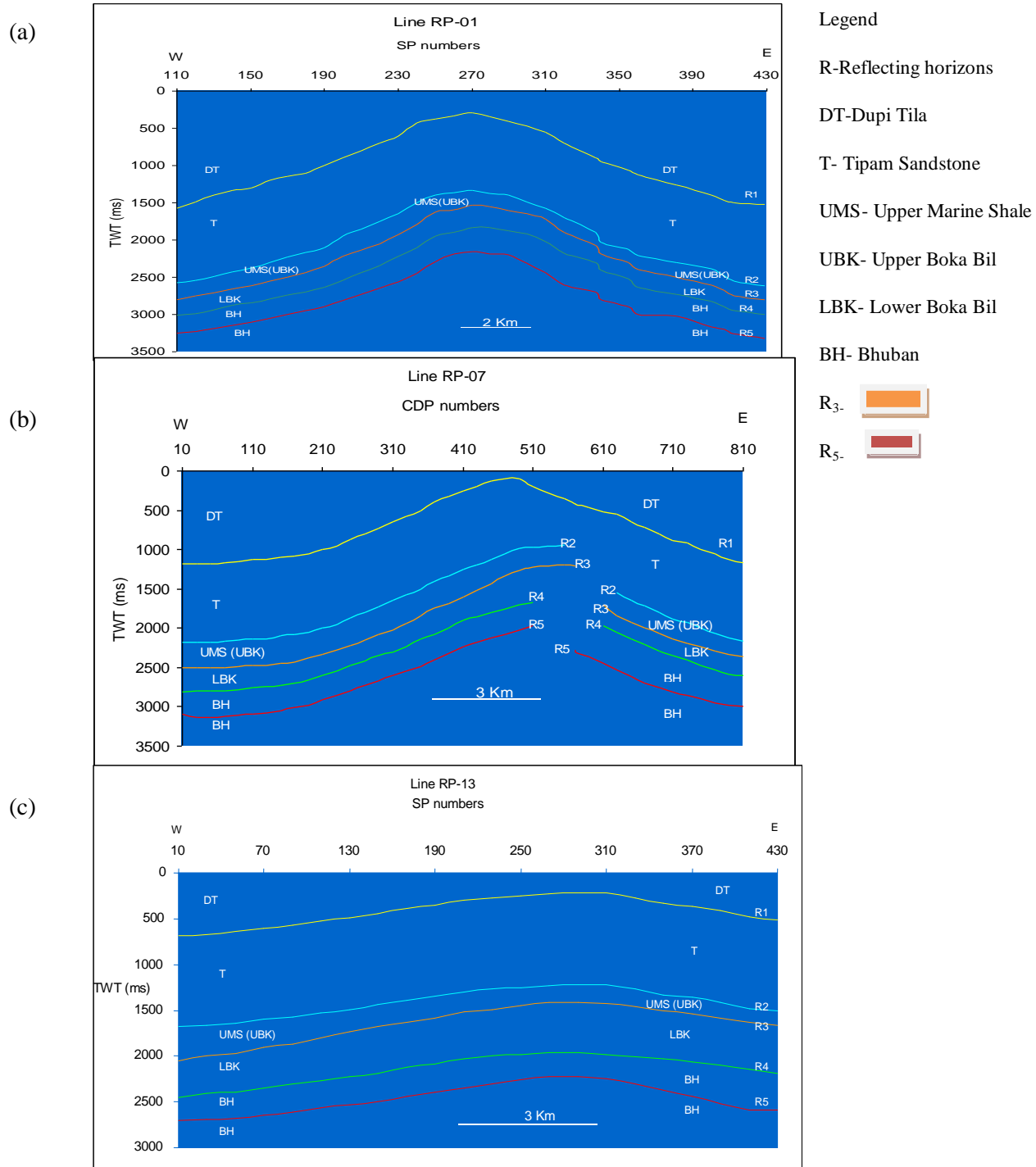


Figure 2 Geological interpretation of seismic sequences in terms of TWT (ms) along the seismic section of the line RP-01 (a), line RP-07 (b) and line RP-13 (c).

Appendix A2: Table

Table 1. Length, orientation, folds and type of seismic lines which are used for interpretation.

Serial No.	Seismic Lines	Length (km)	Orientation	Fold	Type
1	RP -01	15.48	E-W	24	Dip Line
2	RP -02	15.3	E-W	24	Dip Line
3	RP -03	15	E-W	24	Dip Line
4	RP -04	14	E-W	24	Dip Line
5	RP -05	16.77	E-W	24	Dip Line
6	RP -06	17.75	E-W	24	Dip Line
7	RP -07	20.4	E-W	24	Dip Line
8	RP -08	19.19	E-W	24	Dip Line
9	RP -10	15.48	E-W	24	Dip Line
10	RP -12	12.58	E-W	24	Dip Line
11	RP -13	10.7	E-W	24	Dip Line
12	RP -14(N)	25.93	N-S	24	Strike Line
13	RP- 14(S)	9	N-S	24	Strike Line

Table 2. Spatial positions of the reflectors identified on the seismic sections of Rashidpur structure.

Reflectors	Formation involved	Seismic boundary
R ₅	Bhuban	Top of the Lower Gas Sand (LGS)
R ₄	Boka Bil –Bhuban	Top of the Bhuban
R ₃	Boka Bil	Top of the Upper Gas Sand (UGS)
R ₂	Tipam Sandstone -Boka Bil	Top of the Upper Marine Shale (UMS)
R ₁	Dupi Tila – Tipam Sandstone	Top of the Tipam Sandstone

Table 3. Show identified fault displacement magnitude of different reflectors.

Reflectors	Fault Displacement	
	TWT (ms)	Depth (m)
R5	310	430
R4	230	390
R3	450	600
R2	400	530

Table 4. Well log data of the well 2 and seismic data of the Rashidpur structure.

Formation	Depth (m)	Ave. Velocity (m/s)	TWT (sec)
Dupi Tila	0-315	1730	0-0.364
Tipam	315-1225	2348	0.364-1.042
Boka Bil	1225-2473	3408	1.042-1.450
Bhuban	2473-4146	4320	1.450-2.918

Table 5. Characteristics of sub-surface seismic interfaces in the Rashidpur structure (after Hossain, 2000).

Depth range (m)	Thickness (m)	Velocity (m/sec)	Density (kg/m ³)	RC	TC	Reflectors
0-186	186	1650	1975	0.054	0.946	R 1
186-274	88	1800	2019	0.017	0.983	
274-384	110	1850	2033	0.036	0.964	
384-466	82	1960	2063	0.065	0.935	
466-603	137	2175	2117	0.03	0.97	
603-811	208	2285	2143	0.046	0.954	
811-1244	433	2460	2183	0.055	0.945	
1244-1332	88	2685	2231	-0.157	1.157	R 2
1332-1370	38	2085	2095	0.129	0.871	
1370-1420	50	2565	2206	-0.057	1.057	
1420-1480	60	2340	2156	0.127	0.873	R 3
1480-1535	55	2870	2269	0.014	0.986	
1535-1726	191	2935	2282	0.014	0.986	R 4
1726-1920	194	3000	2294	0.04	0.96	
1920-2000	80	3200	2332	-0.025	1.025	R 5
2000-2082	82	3075	2308	0.043	0.957	
2082-2208	126	3295	2349	0.090	0.91	
2208-2240	32	3805	2435	-0.067	1.067	R 5
2240-2410	170	3415	2370	0.021	0.979	
2410-2630	220	3535	2390	0.023	0.977	
2630-2700	70	3665	2414	-0.085	1.085	
2700-2730	30	3200	2332	0.094	0.906	
2730-2926	196	3720	2421	0.036	0.964	
2926-3115	189	3945	2456	-0.055	1.055	
3115-3150	35	3610	2403	0.047	0.953	
3150-3435	285	3890	2448	0.051	0.949	
3435-3627	192	4220	2498	-0.038	1.038	
3627-3770	143	3970	2460	0.048	0.952	
3770-3847	77	4285	2508	0.012	0.988	
3847-3918	71	4370	2520	-0.046	1.046	
3918-4000	82	4055	2474	0.029	0.971	
4000-4055	55	4250	2503	-0.016	1.016	
4055-4125	70	4140	2487	-0.091	1.091	
4125		3575	2397			