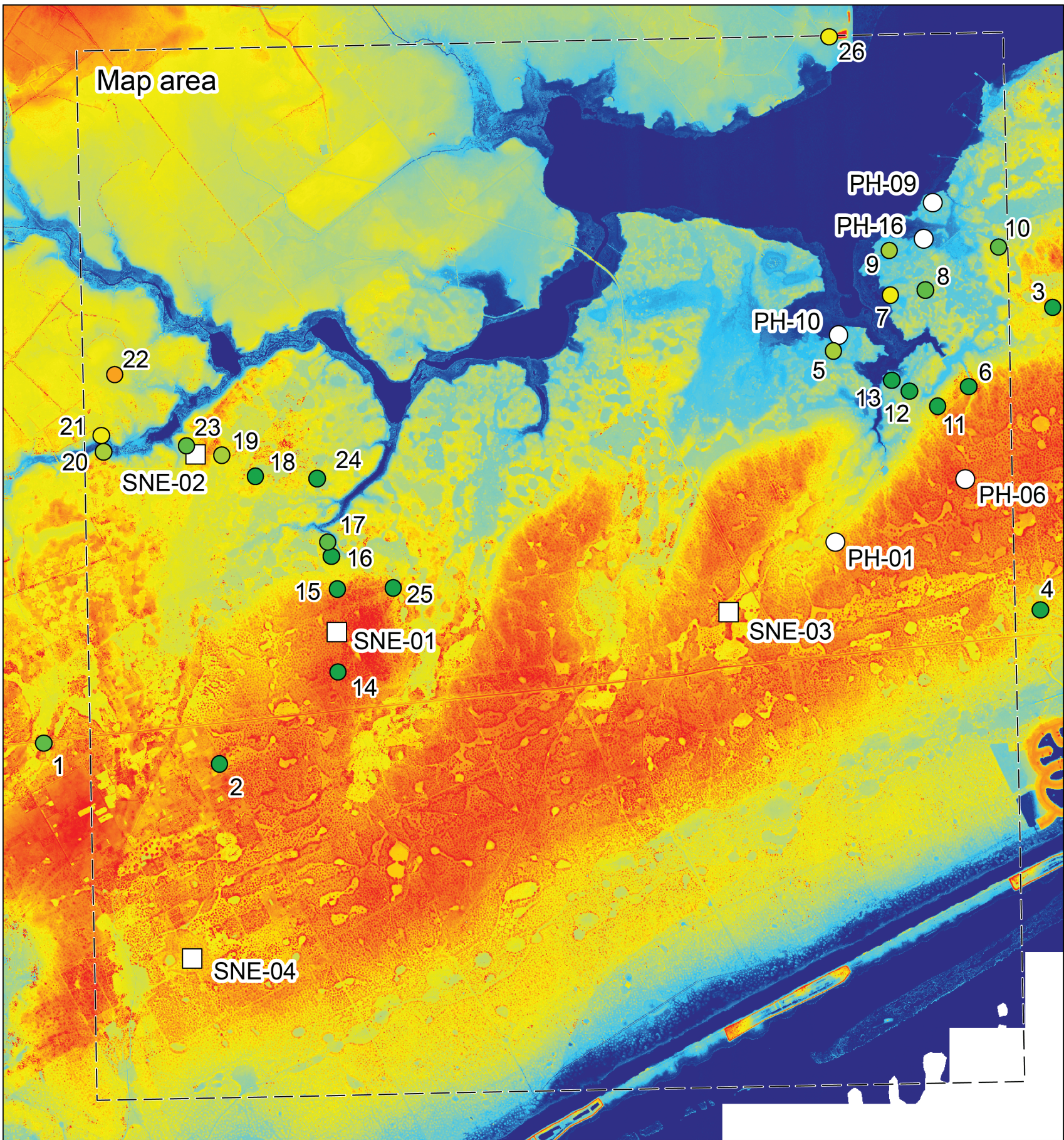


GEOPHYSICAL LOG, TIME-DOMAIN ELECTROMAGNETIC INDUCTION SOUNDING,
AND FREQUENCY-DOMAIN ELECTROMAGNETIC INDUCTION MEASUREMENT LOCATIONS



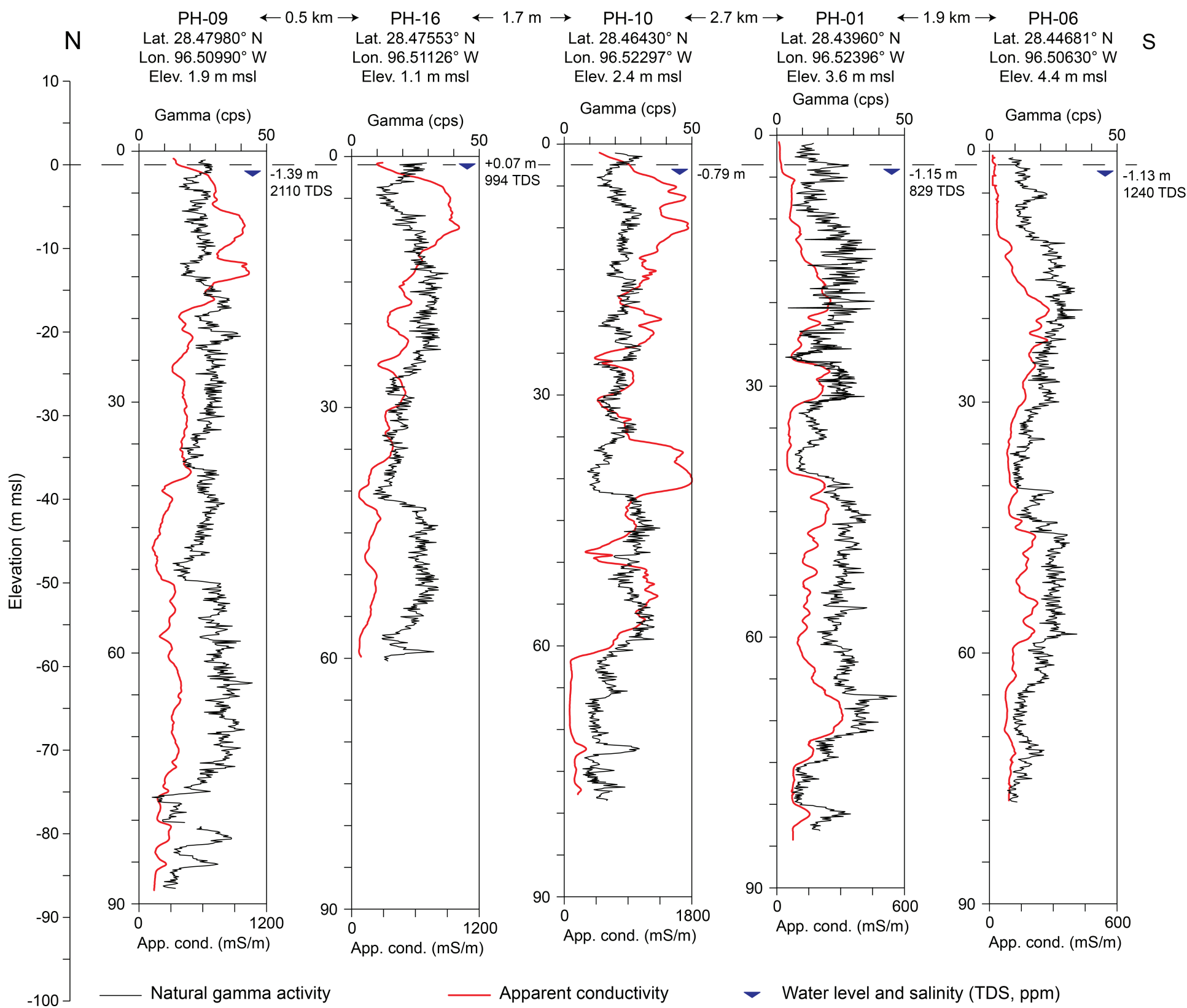
Digital elevation model (DEM) constructed from airborne lidar survey data acquired by the Bureau of Economic Geology in July 2016.

FREQUENCY-DOMAIN ELECTROMAGNETIC INDUCTION MEASUREMENTS

Frequency-domain electromagnetic induction measurements of apparent conductivity measured using Geonics EM31 and EM38 ground-conductivity meters in the horizontal dipole (HD) and vertical dipole (VD) coil orientations. Measurement locations are shown on the map at upper left. Approximate exploration depth ranges are 0 to 3 m (EM31 HD), 0 to 6 m (EM31 VD), 0 to 0.75 m (EM38 HD), and 0 to 1.5 m (EM38 VD).

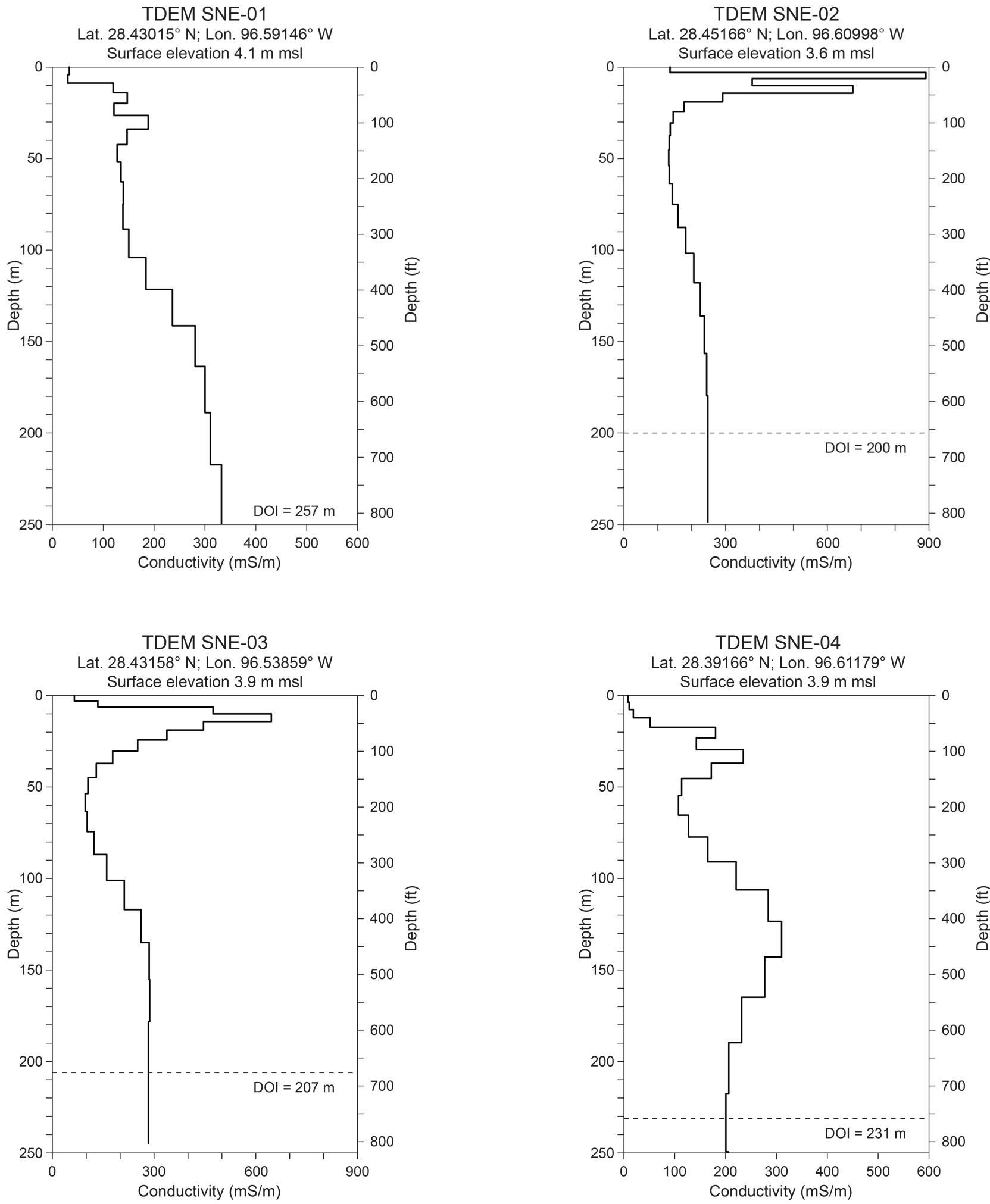
FDEM Site	Date (yyyymmdd)	Lon. (°W, WGS84)	Lat. (°N, WGS84)	EM31 HD (mS/m)	EM31 VD (mS/m)	EM38 HD (mS/m)	EM38 VD (mS/m)
1	20121128	96.63117	28.41758	87	105	--	--
2	20121128	96.60755	28.41473	17	27	--	--
3	20160405	96.49403	28.46701	--	--	--	--
4	20160405	96.49656	28.43101	--	--	--	--
5	20170124	96.52367	28.46242	295	286	166	251
6	20170124	96.50563	28.45778	14	23	5	9
7	20170124	96.51582	28.46889	329	299	215	292
8	20170124	96.51118	28.46944	199	199	115	169
9	20170124	96.51589	28.47421	289	282	160	247
10	20170124	96.50111	28.47438	103	108	55	89
11	20170124	96.50979	28.45557	12	22	3	6
12	20170124	96.51356	28.45743	67	78	34	56
13	20170124	96.51595	28.45877	119	131	52	87
14	20170125	96.59136	28.42534	9	17	3	7
15	20170125	96.59122	28.43529	10	17	2	5
16	20170125	96.59197	28.43917	30	41	14	22
17	20170125	96.59240	28.44087	115	106	74	111
18	20170125	96.60195	28.44889	37	40	19	28
19	20170125	96.60640	28.45144	207	191	154	194
20	20170125	96.62239	28.45214	269	271	161	219
21	20170125	96.62266	28.45407	237	178	205	240
22	20170125	96.62059	28.46127	367	293	292	374
23	20170125	96.61111	28.45263	192	248	81	143
24	20170125	96.59365	28.44846	119	178	47	86
25	20170125	96.58369	28.43525	11	20	3	7
26	20170126	96.52342	28.49978	359	322	229	325

APPARENT CONDUCTIVITY AND NATURAL GAMMA-RAY LOGS*



* Geophysical logs were acquired by Bureau of Economic Geology staff in 2016 and 2017 using a 2PIA induction probe and a 2SNAS spectral gamma probe from Mt. Sopris Instruments.

BEST-FIT ELECTRICAL CONDUCTIVITY MODELS, TIME-DOMAIN ELECTROMAGNETIC SOUNDINGS



DOI: Approximate depth of investigation

Time-domain electromagnetic (TDEM) soundings were acquired by Bureau of Economic Geology staff in 2017 using an ABEM WalkTEM dual-moment instrument. Transmitter loops were circular with a 25.5-m radius. Transmitter current ranged from 1 to 7 amperes. Data were processed using ViewTEM software from Aarhus University.