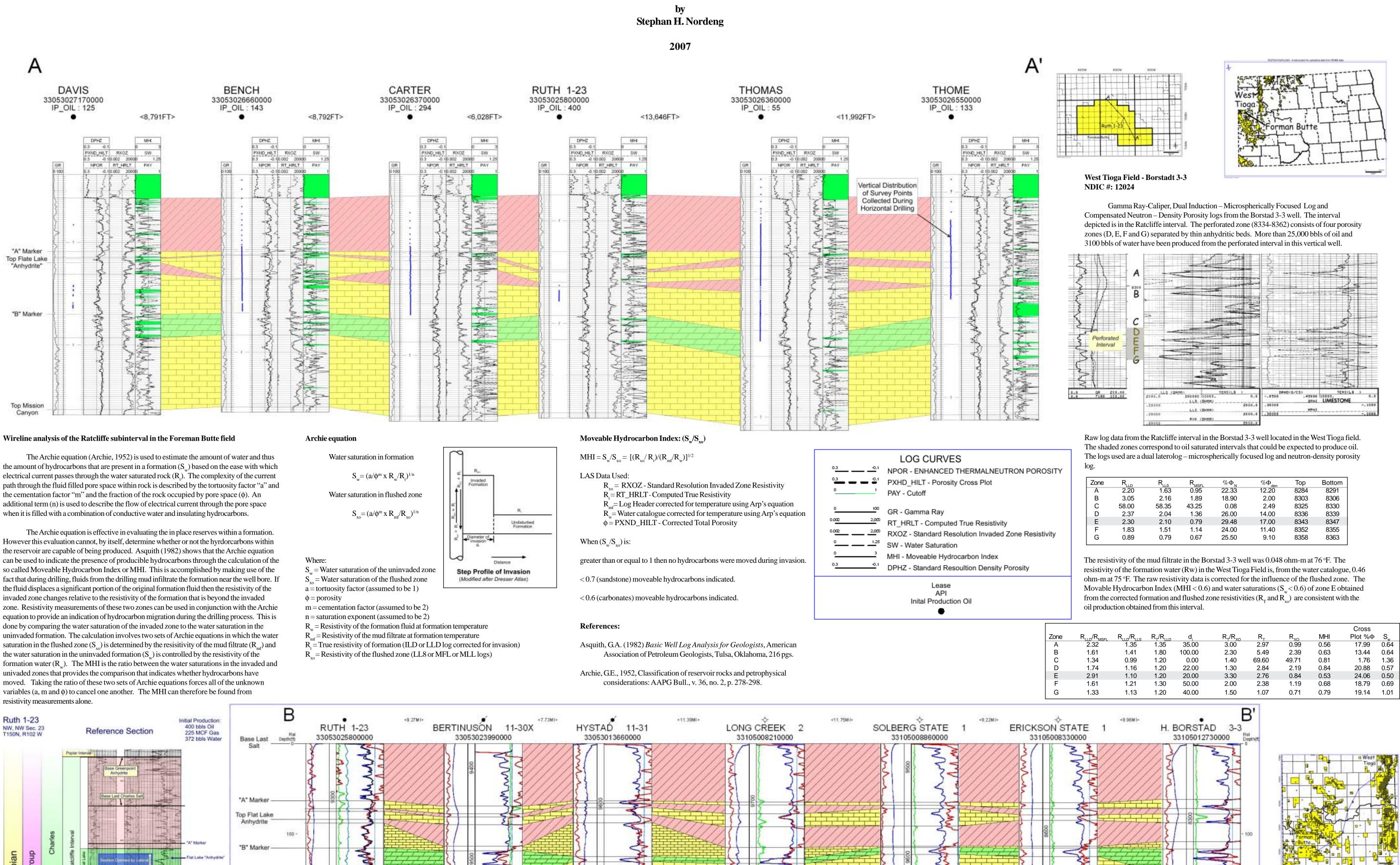
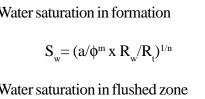
Stratigraphic Cross-Section of Ratcliffe Interval through the Foreman Butte Field Using Neutron-Density Logs with the Distribution of Moveable Hydrocarbons and Water Saturation



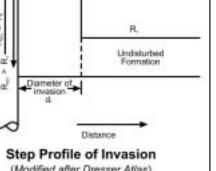
Neutron Porosity (NPHI)

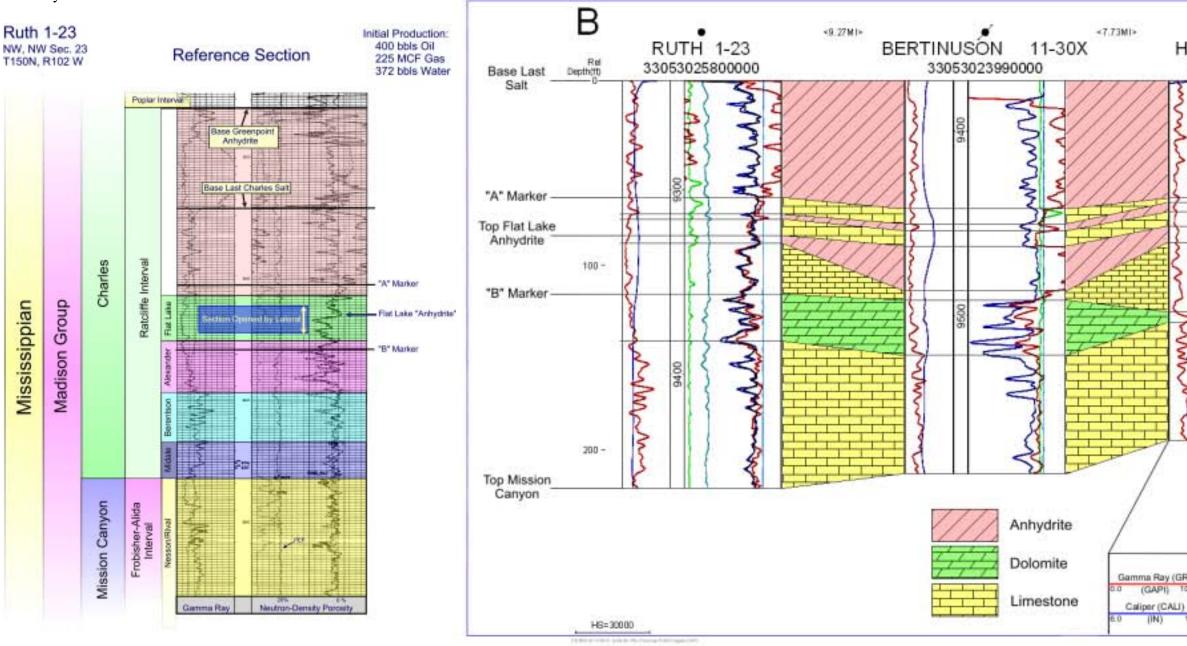
Density Porosity (DPHI)





$$S_{m} = (a/\phi^m x R_{m}/R_{m})^{1/n}$$





Std. Pes. Formation Pe (PEFZ) (----) 10 Bulk Density amection (DRHO) Tension (TENS) 0 (G/C3) 0.4500 10000.0 (LBF) Hit Porosity Cross Plot (PXND HILT)

Regional Stratigraphic Cross-Section of the Ratcliffe Interval: Foreman Butte Field to West Tioga Field





R _{MSFL}	$\%\Phi_{N}$	$\%\Phi_{den}$	Тор	Bottom
0.95	22.33	12.20	8284	8291
1.89	18.90	2.00	8303	8306
43.25	0.08	2.49	8325	8330
1.36	26.00	14.00	8336	8339
0.79	29.48	17.00	8343	8347
1.14	24.00	11.40	8352	8355
0.67	25.50	9.10	8358	8363
	0.95 1.89 43.25 1.36 0.79 1.14	0.95 22.33 1.89 18.90 43.25 0.08 1.36 26.00 0.79 29.48 1.14 24.00	0.95 22.33 12.20 1.89 18.90 2.00 43.25 0.08 2.49 1.36 26.00 14.00 0.79 29.48 17.00 1.14 24.00 11.40	0.9522.3312.2082841.8918.902.00830343.250.082.4983251.3626.0014.0083360.7929.4817.0083431.1424.0011.408352

					Cross		
R_T/R_{LLD}	d _i	R_{T}/R_{xo}	R_{T}	R _{xo}	MHI	Plot % Φ	S _w
1.35	35.00	3.00	2.97	0.99	0.56	17.99	0.64
1.80	100.00	2.30	5.49	2.39	0.63	13.44	0.64
1.20	0.00	1.40	69.60	49.71	0.81	1.76	1.36
1.20	22.00	1.30	2.84	2.19	0.84	20.88	0.57
1.20	20.00	3.30	2.76	0.84	0.53	24.06	0.50
1.30	50.00	2.00	2.38	1.19	0.68	18.79	0.69
1.20	40.00	1.50	1.07	0.71	0.79	19.14	1.01

