



Source Rock Analyses

Leco TOC, Rock-Eval-2 and Maturity Testing

Osage No. 3314 13-9 SWD

December 8, 2014

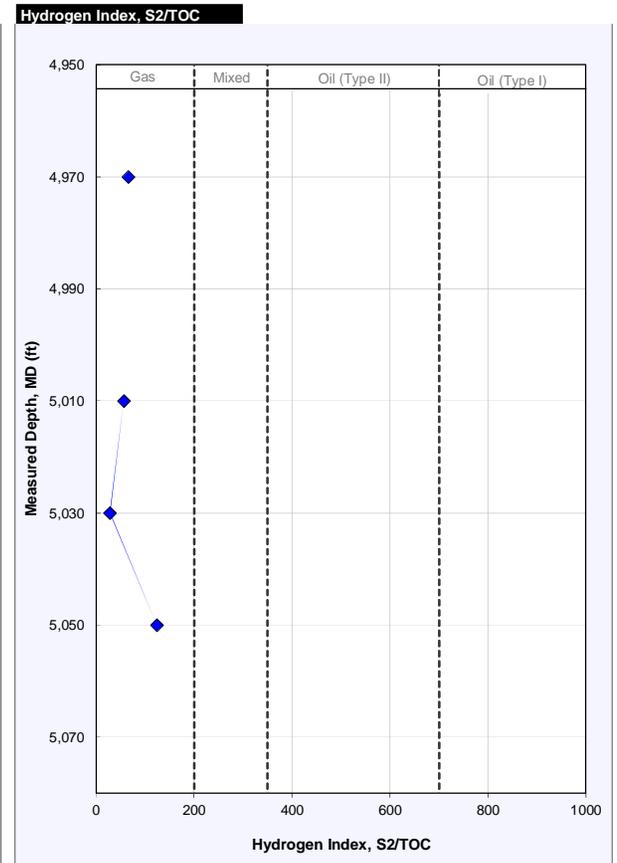
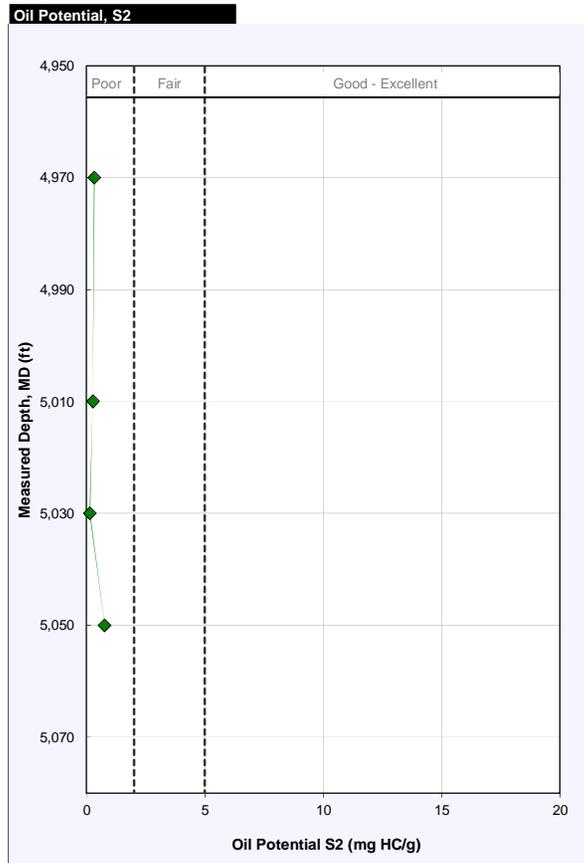
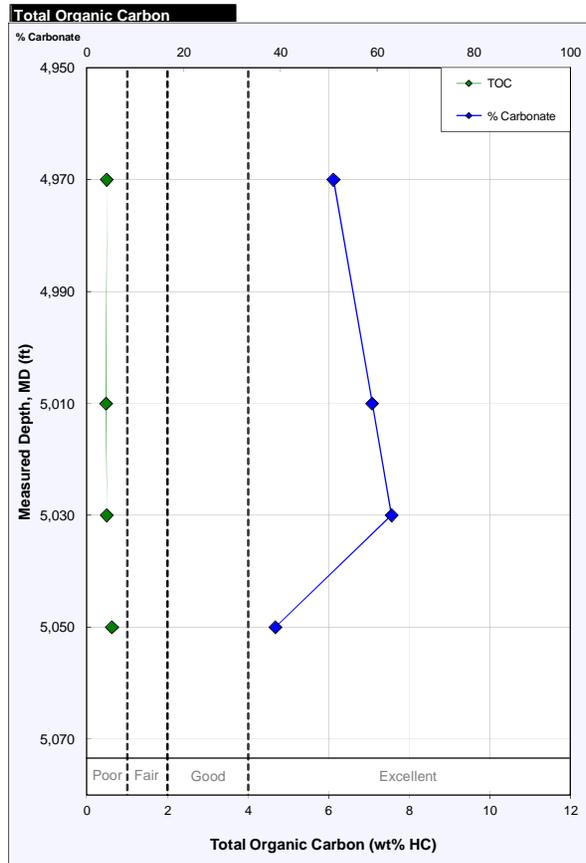


Osage No. 3314 13-9 SWD,

Sample ID										Source Rock Analyses													
Project / Sample ID	Rock ID	Well Name	County	State	Formation Name	Upper Depth (ft)	Lower Depth (ft)	Median Depth (ft)	Sample Type	Percent Carbonate (wt%)	Leco TOC (wt%)	Rock-Eval-2 S1 (mg HC/g)	Rock-Eval-2 S2 (mg HC/g)	Rock-Eval-2 S3 (mg CO2/g)	Rock-Eval-2 Tmax (°C)	Measured %Ro (Vitrinite Refl.)	Calculated %Ro (RE TMAX)	Hydrogen Index (S2x100/TOC)	Oxygen Index (S3x100/TOC)	S2/S3 Conc. (mg HC/mg CO2)	S1/TOC Norm. Oil Content	Production Index (S1/(S1+S2))	Experimental Notations
RPOR-141202-001	7	Osage No. 3314 13-9 SWD				4,960.00	4,980.00	4,970.00		51.00	0.50	0.08	0.33	0.12	436		0.69	66	24	3	16	0.20	
RPOR-141202-002	8	Osage No. 3314 13-9 SWD				5,000.00	5,020.00	5,010.00		59.00	0.48	0.07	0.27	0.11	438		0.72	56	23	2	15	0.21	
RPOR-141202-003	9	Osage No. 3314 13-9 SWD				5,020.00	5,040.00	5,030.00		63.00	0.50	0.05	0.14	0.11	0		0.00	28	22	1	10	0.26	
RPOR-141202-004	10	Osage No. 3314 13-9 SWD				5,040.00	5,060.00	5,050.00		39.00	0.63	0.14	0.78	0.08	438		0.72	124	13	10	22	0.15	

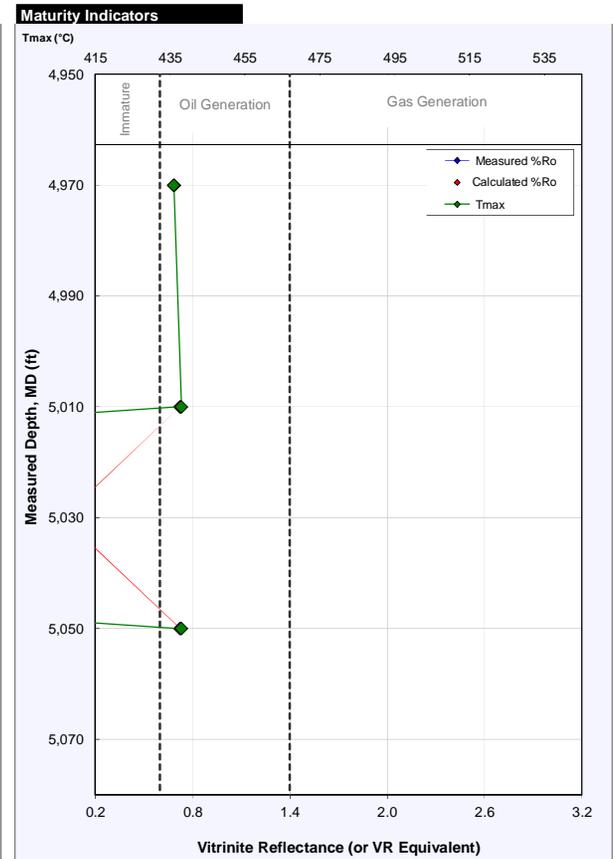
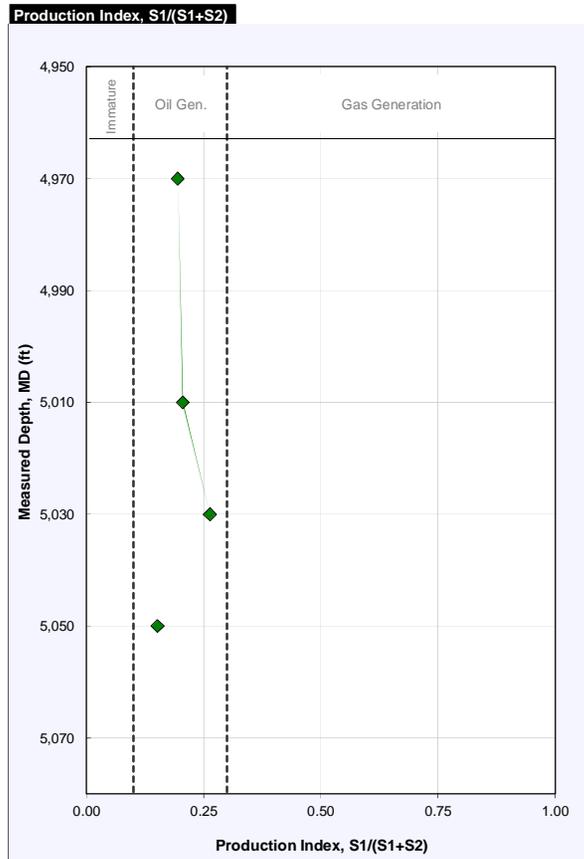
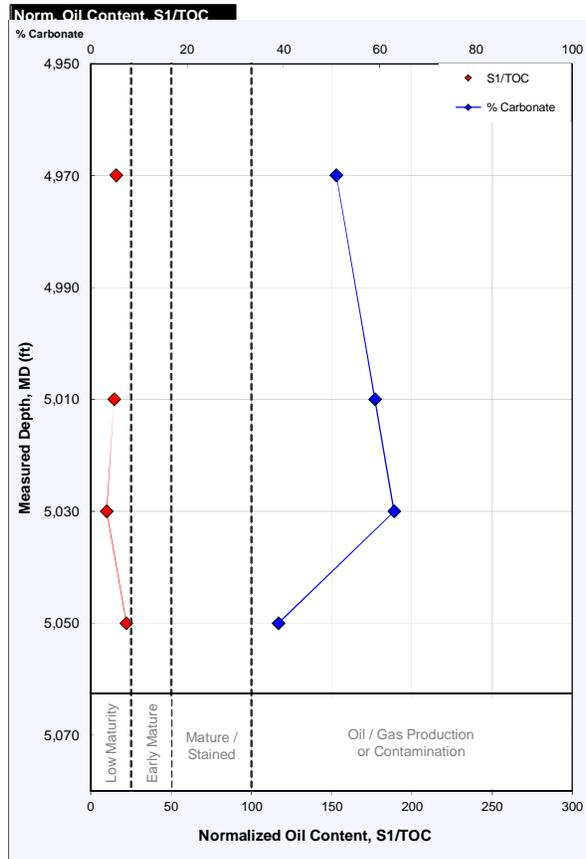


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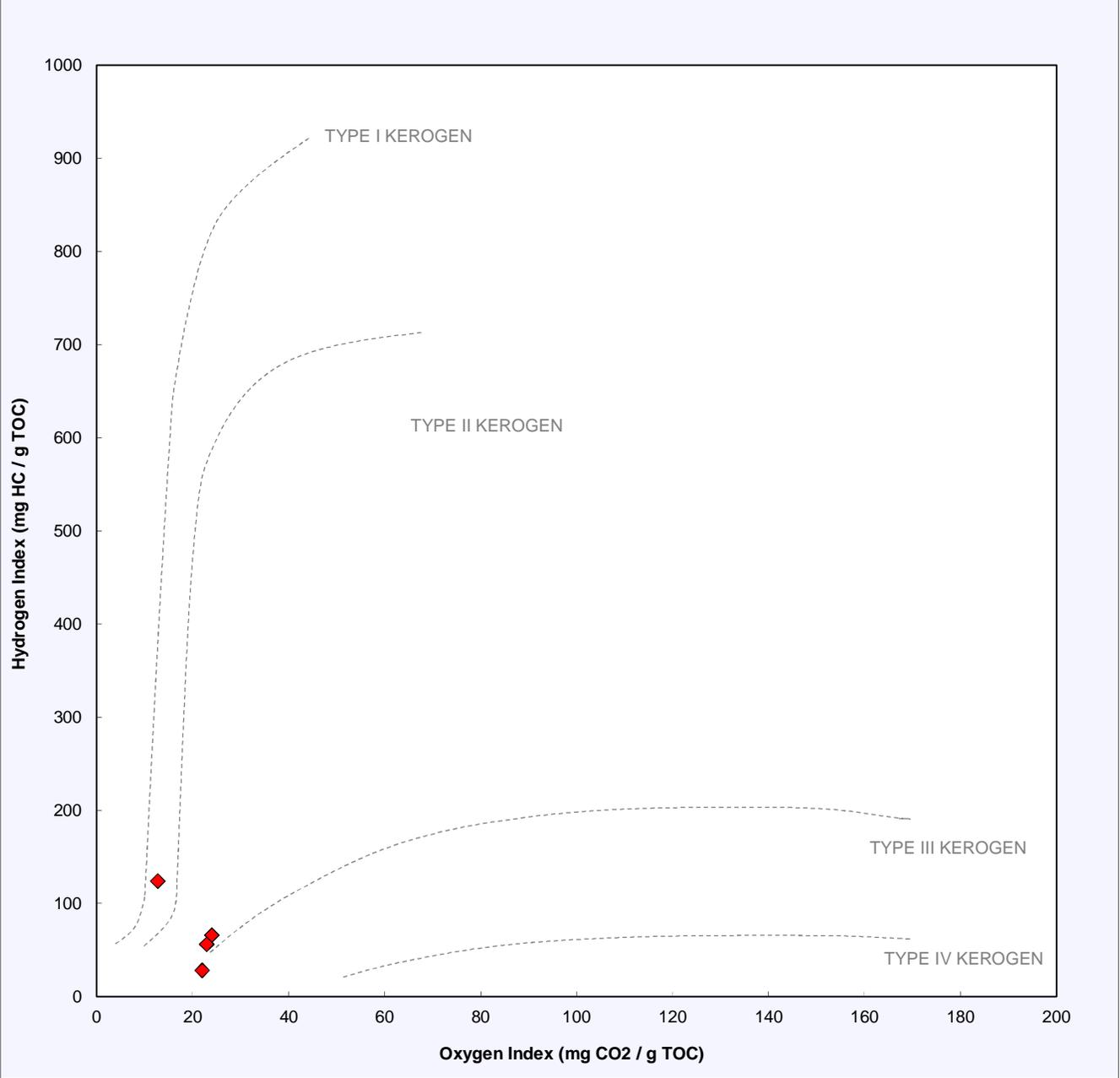
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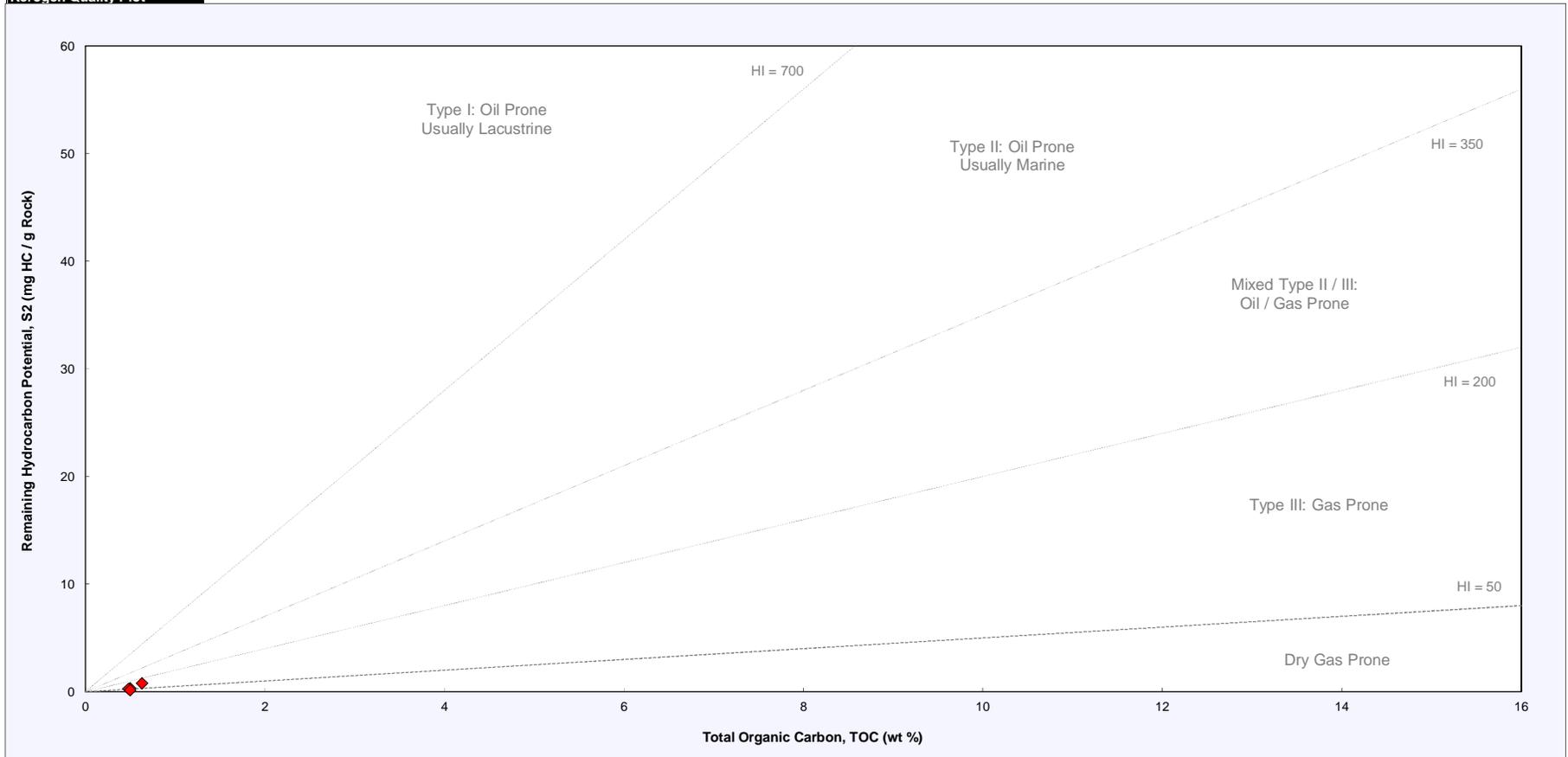
Pseudo Van Krevelen Plot





Osage No. 3314 13-9 SWD,

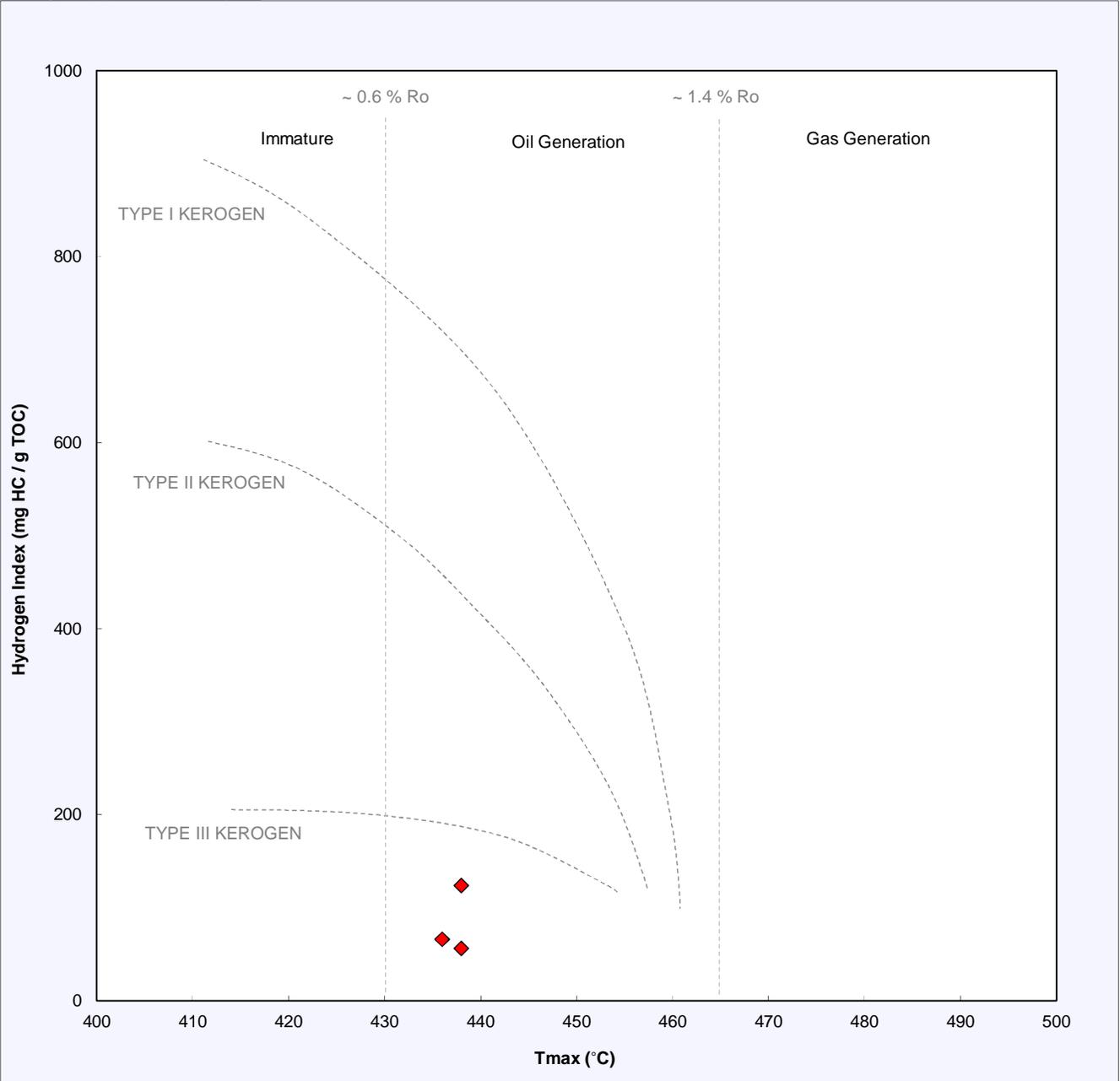
Kerogen Quality Plot





Osage No. 3314 13-9 SWD,

Kerogen Type and Maturity





Osage No. 3314 13-9 SWD,

Kerogen Quality Plot

