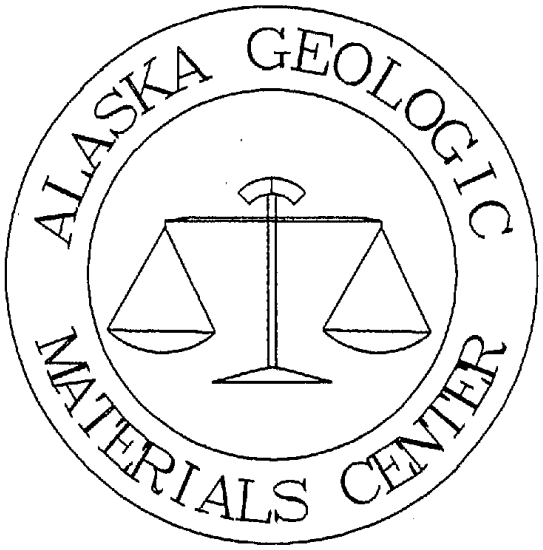
Whole rock vitrinite reflectance data from the following materials of NPRA wells:

Husky Oil NPR Operations Awuna No. 1 cuttings (490' - 11,190'),
Husky Oil NPR Operations East Simpson No. 2 core (2,386.5' - 7,191.5'),
Chevron USA Inc. Eagle Creek No. 1 cuttings (1,980' - 11,990'),
U. S. Navy Iko No. 1 core (2,414.25'),
Husky Oil NPR Operations Inigok No. 1 cuttings (1,100' - 20,060'),
Husky Oil NPR Operations J W Dalton No. 1 cuttings (990' - 7,500'; and 8,350' - 9,310') and core (4,686'; and 7,967' - 8,005'),
Husky Oil NPR Operations Peard Test Well No. 1 cuttings (90' - 10,190'),
North Slope Borough South Barrow No. 13 core (2,321'),



North Slope Borough South Barrow No. 17 core (2,344'),
North Slope Borough South Barrow No. 19 core (2,243'),
Husky Oil NPR Operations Seabee No. 1 cuttings (480' - 15,590'),
Husky Oil NPR Operations South Meade No. 1 cuttings (490' - 9,940'),
U. S. Navy Topagoruk Test No. 1 cuttings (120' - 10,417'),
Husky Oil NPR Operations Tulageak No. 1 core (2,941.5 - 3,785'),
Husky Oil NPR Operations Tunalik No. 1 cuttings (1,200' - 20,300') and core (3,280' - 3,827'; and 10,921'), and
Husky Oil NPR Operations Walakpa No. 1 cuttings (480' - 3,640') and core (275' - 3,659').

Received 2 August 1995 Total of 6 pages in report

Vitrinite Reflectance Data from NPRA Wells

Well	Lab No	Sample No	Depth top (ft)	Ro average (%)	No	stdev	Material core cuttings swc	Method wh rk Isolated	Blind	Analyst DGSI ARCO Jones	con	Ro1	Ro2	Ro3	Ro4	Ro5	Ro6	Ro7	Ro8	Ro9	Ro10	Ro11	Ro12	Ro13	Ro14	Ro15	Ro16	Ro17	Ro18	Ro19	Ro20
AWUNA	93R5092		490	0.64	16	0.10	core	wh rk	yes	Jones		0.89	0.81	0.74	0.58	0.67	0.62	0.74	0.53	0.59	0.64	0.54	0.59	0.59	0.57	0.60	0.58				
AWUNA	93R5093		970	0.61	16	0.07	core	wh rk	yes	Jones		0.60	0.66	0.62	0.60	0.65	0.62	0.74	0.58	0.53	0.57	0.71	0.56	0.70	0.53	0.55	0.56				
AWUNA	93R5094		1480	0.67	16	0.09	core	wh rk	yes	Jones		0.83	0.78	0.68	0.56	0.64	0.66	0.51	0.64	0.60	0.75	0.55	0.67	0.66	0.73	0.69	0.77				
AWUNA	93R5095		1990	0.66	16	0.04	core	wh rk	yes	Jones		0.57	0.62	0.68	0.65	0.71	0.69	0.74	0.65	0.69	0.70	0.65	0.69	0.67	0.63	0.65	0.61				
AWUNA	93R5096		2490	0.63	16	0.10	core	wh rk	yes	Jones		0.61	0.79	0.50	0.53	0.79	0.63	0.77	0.52	0.65	0.63	0.50	0.66	0.57	0.71	0.65	0.64				
AWUNA	93R5097		2990	0.76	16	0.09	core	wh rk	yes	Jones		0.63	0.82	0.66	0.69	0.94	0.74	0.61	0.87	0.83	0.72	0.74	0.85	0.77	0.84	0.78	0.68				
AWUNA	93R5098		3490	0.80	16	0.06	core	wh rk	yes	Jones		0.85	0.87	0.73	0.84	0.79	0.98	0.85	0.82	0.78	0.82	0.79	0.68	0.67	0.72	0.85	0.80				
AWUNA	93R5099		3990	0.84	16	0.12	core	wh rk	yes	Jones		0.66	0.78	0.90	0.74	0.74	0.99	0.82	0.82	1.01	0.92	0.81	0.88	0.90	0.96	0.86	0.57				
AWUNA	93R5100		4490	1.12	16	0.14	core	wh rk	yes	Jones		1.29	1.39	1.29	0.96	0.97	1.01	1.39	1.12	1.06	1.15	1.03	1.12	1.04	1.03	1.11	0.98				
AWUNA	93R5101		4890	1.02	16	0.12	core	wh rk	yes	Jones		0.97	1.20	0.86	1.11	0.92	1.25	1.09	1.01	0.99	1.02	0.89	1.22	1.06	0.97	0.99	0.84				
AWUNA	93R5102		5490	1.12	16	0.16	core	wh rk	yes	Jones		1.22	1.15	1.27	0.92	1.41	1.01	1.16	1.07	0.91	0.99	1.29	0.98	1.00	1.01	1.30	1.26				
AWUNA	93R5103		5990	1.21	16	0.19	core	wh rk	yes	Jones		1.49	0.99	1.49	0.95	1.11	1.33	1.08	1.05	0.85	1.07	1.19	1.42	1.30	1.13	1.32	1.41				
AWUNA	93R5104		6490	1.13	16	0.19	core	wh rk	yes	Jones		1.30	1.23	0.98	1.47	1.58	1.04	1.06	0.96	1.31	1.09	0.97	1.04	1.15	1.02	0.93	1.01				
AWUNA	93R5105		6990	1.10	16	0.14	core	wh rk	yes	Jones		0.97	1.14	0.99	1.23	1.05	0.94	0.92	1.24	1.15	1.11	1.43	1.24	1.03	1.20	1.13	0.90				
AWUNA	93R5106		7490	1.21	16	0.15	core	wh rk	yes	Jones		1.33	1.11	0.99	1.13	0.92	1.35	1.45	1.17	1.42	1.21	1.11	1.19	1.13	1.24	1.30	1.33				
AWUNA	93R5107		7990	1.28	16	0.18	core	wh rk	yes	Jones		0.97	1.27	1.42	1.44	1.22	1.05	1.46	1.54	1.31	1.48	1.31	1.17	1.23	1.04	1.14	1.49				
AWUNA	93R5108		8490	1.26	16	0.13	core	wh rk	yes	Jones		1.15	1.31	1.31	1.29	1.22	1.38	1.49	1.46	1.17	1.13	1.26	1.35	1.09	1.23	0.99	1.35				
AWUNA	93R5109		8990	1.37	16	0.20	core	wh rk	yes	Jones		1.27	1.41	1.36	1.78	1.17	1.12	1.39	1.08	1.57	1.20	1.76	1.49	1.29	1.38	1.27	1.34				
AWUNA	93R5110		9490	1.17	16	0.19	core	wh rk	yes	Jones		1.62	1.15	1.07	0.94	0.97	1.32	1.18	0.98	1.50	1.17	1.15	1.14	1.09	1.14	0.99	1.28				
AWUNA	93R5111		9990	1.49	16	0.18	core	wh rk	yes	Jones		1.39	1.48	1.44	1.72	1.47	1.68	1.21	1.69	1.43	1.22	1.35	1.63	1.63	1.62	1.17	1.68				
AWUNA	93R5112		10490	1.68	16	0.29	core	wh rk	yes	Jones		1.61	1.30	1.49	1.18	2.05	1.96	1.38	1.40	1.92	2.21	1.71	1.82	1.68	1.91	1.67	1.54				
AWUNA	93R5113		10990	1.70	16	0.22	core	wh rk	yes	Jones		1.26	1.75	1.42	1.77	1.71	1.75	1.64	1.81	1.62	1.71	1.75	1.60	2.29	1.86	1.61	1.60				
AWUNA	93R5114		11190	1.74	16	0.16	core	wh rk	yes	Jones		1.63	1.64	1.96	1.78	1.75	1.47	1.85	1.87	1.65	1.80	1.74	1.50	1.68	1.68	1.69	2.07				
E. SIMPSON 2	93R7438	93BA9A	2386.5	0.43	20	0.06	core	wh rk	yes	Jones		0.49	0.44	0.57	0.38	0.46	0.45	0.54	0.44	0.38	0.39	0.39	0.35	0.45	0.40	0.42	0.36	0.44	0.45	0.43	0.43
E. SIMPSON 2	93R7439	93BA10A	6058.25	0.68	20	0.07	core	wh rk	yes	Jones		0.79	0.71	0.80	0.62	0.55	0.74	0.68	0.64	0.62	0.66	0.53	0.67	0.67	0.74	0.71	0.67	0.64	0.62	0.75	0.69
E. SIMPSON 2	93R7440	93BA11A	6728	0.65	2	0.06	core	wh rk	yes	Jones		0.69	0.60																		
E. SIMPSON 2	93R7441	93BA12A	7187	1.23	7	0.17	core	wh rk	yes	Jones		1.42	1.44	1.31	1.13	1.09	0.99	1.23													
E. SIMPSON 2	93R7442	93BA12B	7191.5	0.78	20	0.06	core	wh rk	yes	Jones		0.74	0.70	0.68	0.73	0.79	0.79	0.80	0.80	0.75	0.82	0.87	0.78	0.85	0.77	0.81	0.69	0.86	0.84	0.91	0.81
EAGLE CREEK	93R5071		1980	1.21	6	0.20	core	wh rk	yes	Jones	D	1.31	1.49	0.97	1.02	1.30	1.14														
EAGLE CREEK	93R5072		2490	1.29	12	0.11	core	wh rk	yes	Jones	D	1.14	1.23	1.31	1.30	1.23	1.19	1.23	1.54	1.22	1.38	1.29	1.40								
EAGLE CREEK	93R5073		3000	1.30	16	0.16	core	wh rk	yes	Jones	D	1.11	1.17	1.17	1.25	1.37	1.53	1.10	1.37	1.48	1.37	1.44	1.07	1.30	1.57	1.33	1.24				
EAGLE CREEK	93R5074		3480	1.29	4	0.19	core	wh rk	yes	Jones	E	1.17	1.28	1.55	1.14																
EAGLE CREEK	93R5075		3990	1.30	7	0.17	core	wh rk	yes	Jones	D	1.29	1.11	1.45	1.07	1.48	1.45	1.24													
EAGLE CREEK	93R5076		4470	1.54	16	0.12	core	wh rk	yes	Jones	C	1.64	1.51	1.69	1.62	1.43	1.27	1.59	1.44	1.48	1.60	1.63	1.52	1.55	1.35	1.61	1.66				
EAGLE CREEK	93R5077		4980	1.39	16	0.13	core	wh rk	yes	Jones	C	1.38	1.32	1.57	1.54	1.24	1.58	1.30	1.15	1.36	1.48	1.47	1.36	1.48	1.24	1.27	1.50				
EAGLE CREEK	93R5078		5480	1.43	16	0.13	core	wh rk	yes	Jones	C	1.26	1.62	1.45	1.23	1.43	1.38	1.55	1.49	1.48	1.46	1.20	1.43	1.43	1.65	1.37	1.49				
EAGLE CREEK	93R5079		5990	1.48	16	0.11	core	wh rk	yes	Jones	C	1.45	1.73	1.60	1.28	1.46	1.51	1.44	1.45	1.36	1.59	1.51	1.56	1.39	1.38	1.55	1.38				
EAGLE CREEK	93R5080		6470	1.55	16	0.19	core	wh rk	yes	Jones	C	1.21	1.42	1.68	1.54	1.79	1.56	1.70	1.65	1.43	1.31	1.30	1.61	1.86	1.40	1.61	1.76				
EAGLE CREEK	93R5081		6980	1.73	16	0.11	core	wh rk	yes	Jones	C	1.83	1.78	1.53	1.76	1.61	1.61	1.76	1.89	1.68	1.79	1.71	1.85	1.70	1.53	1.82	1.61				
EAGLE CREEK	93R5082		7490	1.47	11	0.18	core	wh rk	yes	Jones	D	1.29	1.32	1.68	1.25	1.74	1.27	1.46	1.69	1.50	1.44	1.48									
EAGLE CREEK	93R5083		7990	1.55	5	0.21	core	wh rk	yes	Jones	D	1.35	1.30	1.72	1.68	1.71															
EAGLE CREEK	93R5084		8490	1.60	16	0.16	core	wh rk	yes	Jones	C	1.86	1.34	1.96	1.46	1.56	1.50	1.59	1.61	1.75	1.77	1.61	1.89	1.53	1.63	1.67	1.45				
EAGLE CREEK	93R5085		8990	1.84	16	0.32	core	wh rk	yes	Jones	D	2.27	2.13	1.61	1.69	2.40	1.94	1.98	1.88	1.21	1.83	1.55	1.81	2.24	1.72	1.56	1.56				
EAGLE CREEK	93R5086		9490	1.88	16	0.35	core	wh rk	yes	Jones	C	1.43	1.77	1.61	2.30	1.52	1.90	2.24	2.29	2.09	1.79	1.64	1.33	1.69	2.39	1.73	2.38				
EAGLE CREEK	93R5087		9990	2.46	16	0.26	core	wh rk	yes	Jones	C	1.94	2.69	2.47	2.64	3.06	2.57	2.31	2.28	2.53	2.35	2.45	2.58	2.62	2.37	2.39	2.07				
EAGLE CREEK	93R5088		10510	2.74	16	0.34	core	wh rk	yes	Jones	C	2.94	2.82	2.41	3.36	2.92	3.03	2.35	3.11	2.94	3.22	2.42	2.48	2.57	2.60	2.21	2.51				

Vitrinite Reflectance Data from NPRA Wells

Well	Lab No	Sample No	Depth top (ft)	Ro average (%)	No	stdev	Material core cuttings swc	Method wh rk isolated	Blind	Analyst DGSI ARCO Jones	con	Ro1	Ro2	Ro3	Ro4	Ro5	Ro6	Ro7	Ro8	Ro9	Ro10	Ro11	Ro12	Ro13	Ro14	Ro15	Ro16	Ro17	Ro18	Ro19	Ro20
EAGLE CREEK	93R5089		10990	2.79	16	0.46	[redacted]	wh rk	yes	Jones	C	3.68	3.24	2.13	3.15	2.87	2.04	2.50	2.49	2.57	3.07	2.67	3.11	2.52	3.02	3.25	2.27				
EAGLE CREEK	93R5090		11500	2.13	16	0.21		wh rk	yes	Jones	C	1.87	2.16	2.35	1.91	2.41	2.08	2.30	1.74	1.96	2.42	2.20	2.11	1.92	2.10	2.29	2.26				
EAGLE CREEK	93R5091		11990	2.15	16	0.28		wh rk	yes	Jones	C	1.69	1.79	2.44	2.44	1.95	2.15	2.38	2.43	2.72	2.04	2.17	2.18	2.17	1.77	2.06	2.05				
IKO BAY	93R7435	93BA4A	2414.25	0.55	11	0.05	core	wh rk	yes	Jones		0.53	0.58	0.62	0.61	0.52	0.54	0.53	0.52	0.53	0.48	0.64									
INIGOK 1	94R0869		1100	0.40	20	0.05	cuttings	wh rk		Jones		0.36	0.43	0.4	0.41	0.39	0.32	0.48	0.37	0.37	0.34	0.47	0.44	0.42	0.39	0.38	0.44	0.45	0.36	0.46	0.31
INIGOK 1	94R0870		1610	0.44	20	0.05	cuttings	wh rk		Jones		0.47	0.54	0.51	0.45	0.54	0.44	0.43	0.44	0.38	0.48	0.4	0.47	0.49	0.4	0.38	0.41	0.39	0.46	0.4	0.41
INIGOK 1	94R0871		2120	0.42	20	0.04	cuttings	wh rk		Jones		0.36	0.48	0.38	0.4	0.41	0.43	0.42	0.45	0.38	0.33	0.43	0.46	0.42	0.52	0.46	0.44	0.42	0.37	0.38	0.4
INIGOK 1	94R0872A		2600	0.40	7	0.04	cuttings	wh rk		Jones		0.43	0.33	0.39	0.38	0.44	0.44	0.42													
INIGOK 1	94R0872B		2600	0.65	13	0.06	cuttings	wh rk		Jones		0.58	0.71	0.72	0.58	0.64	0.6	0.55	0.61	0.62	0.71	0.71	0.68	0.71							
INIGOK 1	94R0873		3120	0.43	20	0.05	cuttings	wh rk		Jones		0.3	0.41	0.46	0.38	0.43	0.46	0.44	0.44	0.44	0.47	0.47	0.38	0.37	0.36	0.46	0.48	0.43	0.43	0.44	0.54
INIGOK 1	94R0874		3600	0.50	20	0.06	cuttings	wh rk		Jones		0.62	0.58	0.52	0.46	0.44	0.53	0.43	0.43	0.47	0.48	0.58	0.51	0.47	0.44	0.45	0.57	0.46	0.48	0.59	0.55
INIGOK 1	94R0875		4100	0.50	20	0.05	cuttings	wh rk		Jones		0.46	0.58	0.59	0.5	0.59	0.46	0.48	0.43	0.45	0.56	0.45	0.44	0.48	0.52	0.5	0.48	0.49	0.45	0.57	0.47
INIGOK 1	94R0876		4600	0.49	20	0.06	cuttings	wh rk		Jones		0.42	0.52	0.43	0.44	0.57	0.57	0.48	0.43	0.42	0.47	0.42	0.5	0.41	0.6	0.59	0.55	0.56	0.49	0.43	0.46
INIGOK 1	94R0877		5100	0.55	20	0.06	cuttings	wh rk		Jones		0.55	0.57	0.59	0.45	0.6	0.55	0.59	0.58	0.61	0.57	0.64	0.48	0.46	0.49	0.59	0.56	0.56	0.54	0.44	0.56
INIGOK 1	94R0878		5600	0.58	20	0.06	cuttings	wh rk		Jones		0.58	0.49	0.5	0.61	0.6	0.58	0.63	0.7	0.62	0.59	0.64	0.6	0.52	0.67	0.62	0.51	0.61	0.49	0.48	0.58
INIGOK 1	94R0879		6100	0.61	20	0.05	cuttings	wh rk		Jones		0.53	0.58	0.61	0.58	0.63	0.62	0.67	0.63	0.62	0.61	0.67	0.68	0.57	0.59	0.65	0.63	0.5	0.63	0.58	0.56
INIGOK 1	94R0880		6600	0.53	15	0.07	cuttings	wh rk		Jones		0.57	0.56	0.53	0.52	0.48	0.5	0.43	0.48	0.4	0.51	0.57	0.57	0.64	0.66	0.51					
INIGOK 1	94R0881		7100	0.63	20	0.07	cuttings	wh rk		Jones		0.57	0.64	0.6	0.53	0.56	0.6	0.72	0.64	0.74	0.72	0.65	0.56	0.53	0.62	0.64	0.65	0.61	0.76	0.6	0.59
INIGOK 1	94R0882		7600	0.61	14	0.05	cuttings	wh rk		Jones		0.61	0.59	0.64	0.65	0.6	0.73	0.51	0.59	0.57	0.56	0.66	0.63	0.65	0.56						
INIGOK 1	94R0883		8100	0.59	20	0.05	cuttings	wh rk		Jones		0.61	0.6	0.54	0.45	0.59	0.57	0.64	0.63	0.6	0.6	0.55	0.6	0.67	0.58	0.68	0.56	0.56	0.56	0.59	0.69
INIGOK 1	94R0884		8600	0.69	13	0.07	cuttings	wh rk		Jones		0.68	0.67	0.6	0.57	0.68	0.77	0.76	0.76	0.74	0.76	0.6	0.74	0.69							
INIGOK 1	94R0885		9100	0.76	20	0.10	cuttings	wh rk		Jones		0.82	0.93	0.92	0.63	0.59	0.86	0.78	0.67	0.71	0.79	0.82	0.71	0.71	0.88	0.82	0.66	0.69	0.76	0.86	0.65
INIGOK 1	94R0886A		9600	0.62	3	0.01	cuttings	wh rk		Jones		0.63	0.62	0.61																	
INIGOK 1	94R0886B		9600	0.99	12	0.10	cuttings	wh rk		Jones		1.01	1.03	1.06	0.94	1.03	1.07	0.9	0.83	0.92	1.04	1.18	0.9								
INIGOK 1	94R0887		10100	1.05	20	0.09	cuttings	wh rk		Jones		1.13	1.09	1.18	1.05	1.21	1.04	1.06	0.9	0.94	1.15	0.98	0.98	0.93	0.99	1.03	1.13	0.97	0.98	1.18	1.15
INIGOK 1	94R0888		10600	1.04	7	0.17	cuttings	wh rk		Jones		1.23	1	0.83	0.81	1.15	1.18	1.1													
INIGOK 1	94R0889		11100	1.28	6	0.13	cuttings	wh rk		Jones		1.39	1.44	1.13	1.15	1.21	1.34														
INIGOK 1	94R0890		11600	1.41	6	0.22	cuttings	wh rk		Jones		1.48	0.98	1.63	1.49	1.47	1.4														
INIGOK 1	94R0891		12100	1.61	20	0.17	cuttings	wh rk		Jones		1.74	1.73	1.61	1.84	1.78	1.91	2.06	1.66	1.53	2.01	1.66	1.96	1.9	2.01	1.87	1.84	2.12	1.84	1.54	1.82
INIGOK 1	94R0892		12600	2.29	3	0.23	cuttings	wh rk		Jones		2.04	2.35	2.48																	
INIGOK 1	94R0893		13100	2.07	4	0.15	cuttings	wh rk		Jones		1.99	2.29	1.98	2																
INIGOK 1	94R0894		13600	2.13	10	0.33	cuttings	wh rk		Jones		1.62	2.65	2.41	2.36	2.07	1.95	1.87	1.81	2.46	2.07										
INIGOK 1	94R0895		14100	2.32	20	0.31	cuttings	wh rk		Jones		2.15	2.51	1.74	2.71	2.28	2.24	2.49	2.74	1.7	1.87	2.2	2.19	2.48	2.62	2.6	2.07	2.24	2.66	2.44	2.47
INIGOK 1	94R0896		14600	2.47	9	0.41	cuttings	wh rk		Jones		2.78	3.38	2.18	2.4	2.05	2.42	2.18	2.27	2.6											
INIGOK 1	94R0897		15100	2.15	7	0.22	cuttings	wh rk		Jones		1.92	2.44	2.35	2.14	1.97	2.31	1.92													
INIGOK 1	94R0898		15600	3.45	1	0.00	cuttings	wh rk		Jones		3.45																			
INIGOK 1	94R0899		16000	1.99	2	0.08	cuttings	wh rk		Jones		2.04	1.93																		
INIGOK 1	94R0900		16200	2.41	1	0.00	cuttings	wh rk		Jones		2.41																			
INIGOK 1	94R0901		16690		0		cuttings	wh rk		Jones																					
INIGOK 1	94R0902		17200	4.14	6	0.72	cuttings	wh rk		Jones		3.71	4.05	3.54	5.17	4.89	3.48														
INIGOK 1	94R0903		17690		0		cuttings	wh rk		Jones																					
INIGOK 1	94R0904		18280	4.21	6	0.51	cuttings	wh rk		Jones		4.56	4.24	3.78	3.41	4.65	4.61														
INIGOK 1	94R0905		18850	4.33	20	0.78	cuttings	wh rk		Jones		4.75	4.86	3.94	4.49	5.19	5.53	4.19	4.82	3.58	4.07	2.69	3.16	4.8	4.07	3.57	5.78	3.72	4.23	4.2	4.97
INIGOK 1	94R0906		19370	5.50	6	0.55	cuttings	wh rk		Jones		4.37	5.47	5.76	5.47	5.61	5.19	6.09	6.07												
INIGOK 1	94R0907		19750	5.03	20	0.67	cuttings	wh rk		Jones		5.7	5.7	5.44	5.8	4.94	5.41	5.72	3.55	5.1	6.03	4.55	4.8	4.14	5.78	4.9	4.73	4.55	5.05	4.53	4.12
INIGOK 1	94R0908		20060	4.78	3	1.78	cuttings	wh rk		Jones		3.33	4.24	6.76																	
J W DALTON 1	94R0910		990	0.40	20	0.08	cuttings	wh rk		Jones		0.45	0.49	0.53	0.45	0.49	0.41	0.47	0.33	0.3	0.34	0.24	0.41	0.34	0.3	0.44	0.34	0.42	0.35	0.45	0.41

Vitrinite Reflectance Data from NPRA Wells

Well	Lab No	Sample No	Depth top (ft)	Ro average (%)	No	stdev	Material cuttings swc	Method wh rk isolated	Blind	Analyst DGSI ARCO Jones	con	Ro1	Ro2	Ro3	Ro4	Ro5	Ro6	Ro7	Ro8	Ro9	Ro10	Ro11	Ro12	Ro13	Ro14	Ro15	Ro16	Ro17	Ro18	Ro19	Ro20
J W DALTON 1	94R0911		1590	0.37	20	0.07	cuttings	wh rk		Jones		0.3	0.31	0.31	0.48	0.44	0.45	0.32	0.33	0.32	0.38	0.33	0.4	0.36	0.3	0.37	0.36	0.5	0.31	0.38	0.47
J W DALTON 1	94R0912		2160	0.40	20	0.08	cuttings	wh rk		Jones		0.57	0.51	0.54	0.31	0.35	0.35	0.36	0.36	0.35	0.43	0.5	0.35	0.44	0.3	0.35	0.32	0.44	0.36	0.44	0.39
J W DALTON 1	94R0913		2640	0.38	20	0.07	cuttings	wh rk		Jones		0.36	0.37	0.32	0.41	0.43	0.37	0.28	0.33	0.36	0.36	0.3	0.42	0.45	0.33	0.4	0.38	0.35	0.3	0.41	0.57
J W DALTON 1	94R0914		3240	0.45	20	0.07	cuttings	wh rk		Jones		0.38	0.5	0.48	0.35	0.44	0.41	0.46	0.37	0.51	0.52	0.4	0.5	0.41	0.52	0.58	0.45	0.49	0.52	0.33	0.39
J W DALTON 1	94R0915		3780	0.44	20	0.06	cuttings	wh rk		Jones		0.4	0.33	0.37	0.52	0.43	0.36	0.38	0.44	0.49	0.39	0.47	0.45	0.51	0.46	0.43	0.43	0.53	0.38	0.51	0.42
J W DALTON 1	94R0916		4320	0.41	20	0.06	cuttings	wh rk		Jones		0.47	0.38	0.33	0.42	0.41	0.5	0.42	0.48	0.43	0.41	0.43	0.34	0.32	0.45	0.34	0.45	0.32	0.52	0.35	0.4
J W DALTON 1	94R0917		4800	0.47	20	0.05	cuttings	wh rk		Jones		0.57	0.49	0.45	0.43	0.54	0.38	0.51	0.46	0.43	0.48	0.44	0.51	0.5	0.48	0.47	0.45	0.41	0.48	0.47	0.38
J W DALTON 1	94R0918		5430	0.54	20	0.08	cuttings	wh rk		Jones		0.66	0.65	0.65	0.53	0.54	0.53	0.53	0.6	0.64	0.5	0.37	0.6	0.49	0.54	0.52	0.41	0.48	0.58	0.5	0.55
J W DALTON 1	94R0919		5880	0.54	20	0.06	cuttings	wh rk		Jones		0.49	0.54	0.48	0.58	0.53	0.58	0.45	0.59	0.64	0.55	0.64	0.53	0.51	0.44	0.62	0.59	0.52	0.53	0.51	0.52
J W DALTON 1	94R0920		6480	0.60	20	0.08	cuttings	wh rk		Jones		0.64	0.7	0.66	0.61	0.58	0.75	0.54	0.47	0.64	0.59	0.54	0.54	0.72	0.48	0.61	0.52	0.48	0.63	0.67	0.67
J W DALTON 1	94R0921		7010	0.65	20	0.09	cuttings	wh rk		Jones		0.67	0.65	0.54	0.62	0.71	0.58	0.67	0.54	0.58	0.58	0.65	0.77	0.69	0.75	0.76	0.54	0.59	0.47	0.82	0.73
J W DALTON 1	94R0922		7500	0.71	20	0.13	cuttings	wh rk		Jones		0.87	0.78	0.85	0.58	0.77	0.75	0.6	0.79	0.95	0.72	0.6	0.55	0.62	0.5	0.7	0.62	0.62	0.6	0.97	0.7
J W DALTON 1	94R0923		7981	0.62	5	0.06	core	wh rk		Jones		0.67	0.61	0.62	0.66	0.52															
J W DALTON 1	94R0924		7987		0		core	wh rk		Jones																					
J W DALTON 1	94R0925		7999		0		core	wh rk		Jones																					
J W DALTON 1	94R0926		8005	0.56	1	0.00	core	wh rk		Jones		0.56																			
J W DALTON 1	94R0927		8350	0.77	20	0.11	cuttings	wh rk		Jones		0.51	0.73	0.65	0.75	0.72	0.86	0.7	0.51	0.73	0.88	0.84	0.88	0.8	0.84	0.85	0.88	0.85	0.84	0.78	0.83
J W DALTON 1	94R0928		8900		0		cuttings	wh rk		Jones																					
J W DALTON 1	94R0929A		9310	1.25	1	0.00	cuttings	wh rk		Jones		1.25																			
J W DALTON 1	94R0929B		9310	5.15	7	0.60	cuttings	wh rk		Jones		4.26	4.9	4.58	5.29	5.65	5.96	5.44													
J.W. DALTON 1	93R7436	93BA7A	4686	0.46	20	0.04	core	wh rk	yes	Jones		0.51	0.37	0.41	0.43	0.47	0.45	0.44	0.48	0.48	0.42	0.48	0.48	0.52	0.54	0.45	0.44	0.41	0.45	0.43	0.49
J.W. DALTON 1	93R7437	93BA8A	7967	0.59	20	0.05	core	wh rk	yes	Jones		0.75	0.59	0.62	0.63	0.62	0.57	0.57	0.58	0.55	0.64	0.54	0.59	0.63	0.58	0.55	0.55	0.59	0.56	0.54	0.56
PEARD TEST WELL 1	94R1282		90	0.47	20	0.07	cuttings	wh rk		Jones		0.68	0.52	0.49	0.5	0.44	0.46	0.45	0.38	0.56	0.4	0.41	0.45	0.48	0.4	0.44	0.48	0.4	0.55	0.45	0.48
PEARD TEST WELL 1	94R1283		510	0.49	20	0.03	cuttings	wh rk		Jones		0.54	0.53	0.51	0.49	0.46	0.54	0.48	0.46	0.54	0.49	0.46	0.48	0.48	0.43	0.48	0.54	0.49	0.49	0.44	0.51
PEARD TEST WELL 1	94R1284		990	0.46	20	0.06	cuttings	wh rk		Jones		0.53	0.56	0.51	0.54	0.47	0.44	0.42	0.46	0.47	0.52	0.43	0.33	0.35	0.42	0.36	0.44	0.48	0.5	0.47	0.49
PEARD TEST WELL 1	94R1285		1500	0.51	20	0.06	cuttings	wh rk		Jones		0.5	0.6	0.57	0.64	0.43	0.51	0.47	0.46	0.47	0.41	0.44	0.51	0.5	0.54	0.51	0.53	0.52	0.63	0.45	0.48
PEARD TEST WELL 1	94R1286		2010	0.54	20	0.08	cuttings	wh rk		Jones		0.45	0.68	0.44	0.51	0.54	0.56	0.45	0.41	0.4	0.58	0.55	0.56	0.43	0.64	0.59	0.68	0.6	0.57	0.56	0.54
PEARD TEST WELL 1	94R1287		2490	0.53	20	0.05	cuttings	wh rk		Jones		0.55	0.64	0.59	0.55	0.57	0.61	0.52	0.46	0.52	0.5	0.52	0.47	0.48	0.54	0.53	0.47	0.54	0.52	0.52	0.5
PEARD TEST WELL 1	94R1288		3035	0.52	20	0.07	cuttings	wh rk		Jones		0.44	0.54	0.72	0.54	0.45	0.47	0.51	0.52	0.67	0.5	0.51	0.46	0.46	0.46	0.57	0.46	0.58	0.51	0.5	0.58
PEARD TEST WELL 1	94R1289		3480	0.58	13	0.09	cuttings	wh rk		Jones		0.44	0.46	0.55	0.71	0.7	0.63	0.58	0.55	0.62	0.48	0.56	0.62	0.68							
PEARD TEST WELL 1	94R1290		3990	0.55	20	0.08	cuttings	wh rk		Jones		0.46	0.63	0.74	0.48	0.48	0.59	0.56	0.53	0.54	0.43	0.46	0.51	0.45	0.63	0.54	0.59	0.55	0.64	0.53	0.65
PEARD TEST WELL 1	94R1291		4500	0.57	20	0.07	cuttings	wh rk		Jones		0.59	0.62	0.63	0.57	0.69	0.55	0.59	0.61	0.64	0.67	0.59	0.52	0.52	0.52	0.48	0.5	0.47	0.48	0.45	0.63
PEARD TEST WELL 1	94R1292		4980	0.55	8	0.06	cuttings	wh rk		Jones		0.55	0.56	0.58	0.62	0.45	0.6	0.46	0.58												
PEARD TEST WELL 1	94R1293		5440	0.57	6	0.08	cuttings	wh rk		Jones		0.66	0.67	0.58	0.49	0.47	0.57														
PEARD TEST WELL 1	94R1294		6000	0.63	10	0.07	cuttings	wh rk		Jones		0.69	0.65	0.7	0.66	0.57	0.67	0.72	0.58	0.5	0.55										
PEARD TEST WELL 1	94R1295A		6500	0.74	1	0.00	cuttings	wh rk		Jones		0.74																			
PEARD TEST WELL 1	94R1295B		6500	1.12	8	0.11	cuttings	wh rk		Jones		1.03	1.06	1.1	1.28	1.22	0.93	1.21	1.14												
PEARD TEST WELL 1	94R1296		7000	0.74	10	0.08	cuttings	wh rk		Jones		0.72	0.64	0.57	0.84	0.8	0.75	0.77	0.83	0.74	0.72										
PEARD TEST WELL 1	94R1297		7500	0.83	5	0.08	cuttings	wh rk		Jones		0.93	0.82	0.78	0.88	0.72															
PEARD TEST WELL 1	94R1298		8000	0.76	2	0.11	cuttings	wh rk		Jones		0.83	0.68																		
PEARD TEST WELL 1	94R1299		8500	0.79	8	0.09	cuttings	wh rk		Jones		0.7	0.71	0.7	0.81	0.76	0.84	0.89	0.94												
PEARD TEST WELL 1	94R1300		8997		0		cuttings	wh rk		Jones																					
PEARD TEST WELL 1	94R1301		9500		0		cuttings	wh rk		Jones																					
PEARD TEST WELL 1	94R1302		10000		0		cuttings	wh rk		Jones																					
PEARD TEST WELL 1	94R1303		10190		0		cuttings	wh rk		Jones																					
S. BARROW T.W. 13	93R7431	93BA1A	2321	0.43	12	0.06	core	wh rk	yes	Jones		0.49	0.44	0.47	0.51	0.48	0.48	0.38	0.35	0.39	0.37	0.38	0.40								
S. BARROW T.W. 17	93R7432	93BA2A	2344	2.55	8	0.76	core	wh rk	yes	Jones		1.73	1.80	1.83	3.13	2.48	2.41	3.70	3.30												

Vitrinite Reflectance Data from NPRA Wells

Well	Lab No	Sample No	Depth top (ft)	Ro average (%)	No	stdev	Material core cuttings swc	Method wh rk Isolated	Blind	Analyst DGSI ARCO Jones	con	Ro1	Ro2	Ro3	Ro4	Ro5	Ro6	Ro7	Ro8	Ro9	Ro10	Ro11	Ro12	Ro13	Ro14	Ro15	Ro16	Ro17	Ro18	Ro19	Ro20
S. BARROW T.W. 19	93R7430	93BA3A	2243	0.43	6	0.06	core	wh rk	yes	Jones		0.37	0.36	0.46	0.53	0.41	0.42														
SEABEE 1	93R5002		480	0.50	16	0.06		wh rk	yes	ARCO		0.60	0.53	0.53	0.61	0.52	0.54	0.47	0.53	0.48	0.47	0.46	0.45	0.41	0.40	0.50	0.54				
SEABEE 1	93R5003		990	0.59	16	0.07		wh rk	yes	ARCO		0.56	0.67	0.41	0.57	0.64	0.63	0.68	0.61	0.58	0.60	0.61	0.56	0.55	0.67	0.58	0.54				
SEABEE 1	93R5004		1470	0.55	16	0.05		wh rk	yes	ARCO		0.54	0.55	0.58	0.53	0.55	0.53	0.56	0.67	0.51	0.49	0.55	0.58	0.56	0.49	0.55	0.62				
SEABEE 1	93R5005		2000	0.52	16	0.04		wh rk	yes	ARCO		0.46	0.55	0.59	0.54	0.57	0.51	0.53	0.56	0.49	0.52	0.53	0.52	0.50	0.47	0.47	0.47				
SEABEE 1	93R5006		2490	0.58	16	0.05		wh rk	yes	ARCO		0.48	0.59	0.63	0.59	0.67	0.47	0.57	0.56	0.61	0.61	0.54	0.56	0.62	0.61	0.57	0.58				
SEABEE 1	93R5007		2990	0.60	16	0.09		wh rk	yes	ARCO		0.43	0.59	0.49	0.57	0.49	0.69	0.67	0.63	0.60	0.70	0.78	0.71	0.57	0.55	0.57	0.61				
SEABEE 1	93R5008		3490	0.56	16	0.06		wh rk	yes	ARCO		0.50	0.50	0.72	0.51	0.60	0.55	0.62	0.51	0.56	0.49	0.59	0.59	0.49	0.60	0.60	0.55				
SEABEE 1	93R5009		3990	0.63	16	0.05		wh rk	yes	ARCO		0.64	0.70	0.52	0.65	0.64	0.70	0.58	0.62	0.63	0.56	0.67	0.67	0.70	0.55	0.63	0.61				
SEABEE 1	93R5010		4490	0.59	5	0.04		wh rk	yes	ARCO		0.64	0.57	0.62	0.55	0.59															
SEABEE 1	93R5011		4990	0.63	16	0.07		wh rk	yes	ARCO		0.62	0.51	0.59	0.74	0.82	0.73	0.70	0.54	0.65	0.57	0.73	0.67	0.68	0.53	0.58	0.59				
SEABEE 1	93R5012		5490	0.66	16	0.07		wh rk	yes	ARCO		0.64	0.62	0.67	0.65	0.67	0.68	0.63	0.74	0.68	0.62	0.77	0.77	0.52	0.69	0.55	0.60				
SEABEE 1	93R5013		5990	0.61	16	0.07		wh rk	yes	ARCO		0.54	0.57	0.69	0.55	0.55	0.59	0.67	0.61	0.62	0.74	0.64	0.65	0.66	0.65	0.48	0.62				
SEABEE 1	93R5014		6490	0.66	16	0.11		wh rk	yes	ARCO		0.60	0.65	0.84	0.76	0.81	0.59	0.60	0.66	0.56	0.62	0.48	0.66	0.67	0.70	0.53	0.83				
SEABEE 1	93R5015		6990	0.69	16	0.09		wh rk	yes	ARCO		0.68	0.83	0.67	0.67	0.70	0.54	0.79	0.62	0.67	0.52	0.85	0.62	0.66	0.76	0.70	0.77				
SEABEE 1	93R5016		7490	0.64	16	0.08		wh rk	yes	ARCO		0.54	0.69	0.61	0.52	0.69	0.64	0.67	0.53	0.50	0.63	0.67	0.76	0.56	0.69	0.76	0.72				
SEABEE 1	93R5017		7990	0.65	16	0.05		wh rk	yes	ARCO		0.71	0.62	0.56	0.64	0.66	0.58	0.67	0.60	0.68	0.69	0.68	0.70	0.62	0.74	0.64	0.55				
SEABEE 1	93R5018		8490	0.66	16	0.07		wh rk	yes	ARCO		0.68	0.69	0.63	0.73	0.55	0.71	0.61	0.71	0.53	0.54	0.70	0.66	0.62	0.73	0.74	0.71				
SEABEE 1	93R5019		8990	0.70	16	0.07		wh rk	yes	ARCO		0.65	0.76	0.69	0.72	0.72	0.76	0.82	0.71	0.75	0.57	0.69	0.74	0.66	0.68	0.56	0.65				
SEABEE 1	93R5020		9490	0.76	16	0.13		wh rk	yes	ARCO		1.00	0.90	0.73	0.94	0.70	0.72	0.62	0.61	0.63	0.63	0.69	0.85	0.98	0.72	0.71	0.77				
SEABEE 1	93R5021		9990	0.80	16	0.11		wh rk	yes	ARCO		0.82	0.92	0.70	0.94	0.82	0.97	0.89	0.93	0.77	0.70	0.83	0.64	0.69	0.63	0.76	0.82				
SEABEE 1	93R5022		10490	0.87	16	0.13		wh rk	yes	ARCO		0.89	0.92	1.01	1.06	1.03	0.79	0.64	0.95	0.97	0.78	1.00	0.76	0.88	0.72	0.78	0.76				
SEABEE 1	93R5023		10990	0.90	16	0.13		wh rk	yes	ARCO		0.72	0.97	0.89	0.93	1.00	1.09	0.80	0.90	0.79	0.77	0.68	0.83	0.88	1.13	0.97	1.00				
SEABEE 1	93R5024		11490	1.01	15	0.14		wh rk	yes	ARCO		0.85	1.01	0.89	1.05	0.97	0.97	0.95	1.14	1.00	0.92	1.06	1.20	1.29	0.76	1.16	0.96				
SEABEE 1	93R5025		11990	1.17	16	0.13		wh rk	yes	ARCO		1.28	1.25	1.09	1.22	1.17	1.30	1.35	1.34	1.28	1.13	0.93	0.96	1.26	1.07	1.01	1.08				
SEABEE 1	93R5026		12490	1.21	16	0.14		wh rk	yes	ARCO		0.98	1.05	1.08	1.08	1.19	1.29	1.11	1.21	1.41	1.36	1.25	1.16	1.43	1.37	1.29	1.08				
SEABEE 1	93R5027		12990	1.19	7	0.12		wh rk	yes	ARCO		1.08	1.31	1.14	1.11	1.40	1.19	1.11													
SEABEE 1	93R5028		13490	1.34	6	0.08		wh rk	yes	ARCO		1.44	1.37	1.40	1.32	1.20	1.33														
SEABEE 1	93R5029		13990	1.48	16	0.26		wh rk	yes	ARCO		1.34	1.74	1.95	1.67	1.71	1.01	1.54	1.16	1.25	1.40	1.49	1.67	1.74	1.27	1.26	1.46				
SEABEE 1	93R5030		14490	1.47	16	0.18		wh rk	yes	ARCO		1.46	1.48	1.38	1.44	1.45	1.53	1.92	1.05	1.70	1.28	1.42	1.56	1.54	1.42	1.45	1.42				
SEABEE 1	93R5031		14990	1.69	16	0.21		wh rk	yes	ARCO		1.62	1.52	1.95	1.85	1.81	1.70	1.96	1.65	1.57	1.56	1.43	1.89	1.58	1.43	2.08	1.40				
SEABEE 1	93R5032		15490	1.85	16	0.24		wh rk	yes	ARCO		1.46	2.13	2.32	1.76	1.65	1.86	2.07	1.64	1.94	1.83	2.07	2.07	1.53	1.85	1.70	1.75				
SEABEE 1	93R5033		15590	1.86	16	0.25		wh rk	yes	ARCO		1.75	2.22	2.08	1.78	1.87	1.60	1.45	1.74	2.21	2.25	1.51	1.84	1.92	1.69	2.10	1.73				
SOUTH MEADE 1	93R5123		490	0.52	16	0.06		wh rk	yes	Jones	C	0.55	0.47	0.54	0.62	0.57	0.63	0.48	0.52	0.45	0.44	0.53	0.53	0.56	0.51	0.55	0.43				
SOUTH MEADE 1	93R5124		970	0.49	16	0.05		wh rk	yes	Jones	C	0.53	0.46	0.45	0.49	0.44	0.42	0.56	0.42	0.50	0.45	0.56	0.57	0.49	0.43	0.50	0.56				
SOUTH MEADE 1	93R5125		1480	0.50	16	0.06		wh rk	yes	Jones	C	0.55	0.58	0.44	0.54	0.47	0.41	0.43	0.52	0.56	0.58	0.58	0.47	0.45	0.44	0.58	0.46				
SOUTH MEADE 1	93R5126		1980	0.59	16	0.06		wh rk	yes	Jones	C	0.62	0.69	0.52	0.63	0.66	0.48	0.56	0.52	0.63	0.64	0.52	0.61	0.60	0.59	0.56	0.60				
SOUTH MEADE 1	93R5127		2490	0.58	16	0.05		wh rk	yes	Jones	C	0.52	0.56	0.62	0.63	0.56	0.54	0.52	0.60	0.51	0.66	0.62	0.59	0.58	0.58	0.64	0.53				
SOUTH MEADE 1	93R5128		2990	0.60	16	0.10		wh rk	yes	Jones	C	0.62	0.79	0.56	0.50	0.46	0.64	0.58	0.49	0.49	0.47	0.62	0.73	0.71	0.71	0.58	0.62				
SOUTH MEADE 1	93R5129		3490	0.62	16	0.08		wh rk	yes	Jones	C	0.64	0.72	0.61	0.69	0.60	0.72	0.51	0.47	0.72	0.68	0.61	0.49	0.60	0.58	0.65	0.67				
SOUTH MEADE 1	93R5130		3990	0.75	16	0.07		wh rk	yes	Jones	C	0.78	0.81	0.79	0.70	0.74	0.71	0.86	0.78	0.76	0.72	0.72	0.84	0.82	0.80	0.80	0.65				
SOUTH MEADE 1	93R5131		4490	0.70	16	0.08		wh rk	yes	Jones	D	0.65	0.63	0.68	0.74	0.72	0.60	0.75	0.57	0.77	0.84	0.73	0.60	0.75	0.83	0.62	0.73				
SOUTH MEADE 1	93R5132		4990	0.71	16	0.07		wh rk	yes	Jones	C	0.57	0.74	0.56	0.79	0.70	0.74	0.69	0.77	0.75	0.67	0.72	0.74	0.73	0.70	0.77	0.74				
SOUTH MEADE 1	93R5133		5490	0.73	16	0.10		wh rk	yes	Jones	C	0.86	0.81	0.66	0.93	0.81	0.60	0.57	0.63	0.65	0.71	0.77	0.76	0.72	0.68	0.77	0.72				
SOUTH MEADE 1	93R5134		5990	0.84	16	0.14		wh rk	yes	Jones	C	0.74	0.76	0.77	0.71	0.89	1.08	0.85	0.91	0.91	0.75	0.82	1.02	0.94	1.04	0.60	0.65				
SOUTH MEADE 1	93R5135		6490	1.09	16	0.21		wh rk	yes	Jones	D	1.26	1.34	1.32	1.41	1.24	1.04	1.44	0.98	0.84	0.90	0.85	1.06	1.01	0.95	0.83	0.96				
SOUTH MEADE 1	93R5136		6990	1.34	16	0.12		wh rk	yes	Jones	C	1.40	1.51	1.54	1.16	1.21	1.43	1.25	1.23	1.28	1.23	1.26	1.45	1.24	1.45	1.33	1.39				

Vitrinite Reflectance Data from NPRA Wells

Well	Lab No	Sample No	Depth top (ft)	Ro average (%)	No	stdev	Material	Method	Blind	Analyst	con	Ro1	Ro2	Ro3	Ro4	Ro5	Ro6	Ro7	Ro8	Ro9	Ro10	Ro11	Ro12	Ro13	Ro14	Ro15	Ro16	Ro17	Ro18	Ro19	Ro20
							core	wh rk		DGSI																					
							cuttings	isolated		ARCO																					
							swc			Jones																					
SOUTH MEADE 1	93R5137		7100	1.20	16	0.34		wh rk	yes	Jones	D	0.84	0.71	0.70	0.79	0.65	1.37	1.51	1.59	1.24	1.48	1.51	1.23	1.41	1.18	1.38	1.59				
SOUTH MEADE 1	93R5138		7490	1.71	16	0.20		wh rk	yes	Jones	C	1.88	2.12	1.80	1.97	1.37	1.85	1.69	1.55	1.83	1.46	1.65	1.78	1.49	1.69	1.52	1.76				
SOUTH MEADE 1	93R5139		8090	1.00	6	0.53		wh rk	yes	Jones	E	0.80	0.76	0.64	0.78	0.96	2.06														
SOUTH MEADE 1	93R5140		8490	2.09	13	0.29		wh rk	yes	Jones	D	1.59	2.39	2.02	2.28	2.01	1.80	2.00	1.94	2.47	1.67	2.16	2.40	2.39							
SOUTH MEADE 1	93R5141		8990	2.19	16	0.35		wh rk	yes	Jones	C	2.14	2.04	2.72	2.64	1.93	1.89	2.57	1.99	2.57	1.83	1.83	2.66	2.42	1.62	2.02	2.21				
SOUTH MEADE 1	93R5142		9490	2.33	9	0.35		wh rk	yes	Jones	D	2.04	2.01	3.06	2.33	2.19	2.05	2.67	2.43	2.19											
SOUTH MEADE 1	93R5143		9940	5.80	16	0.43		wh rk	yes	Jones	B	4.86	5.18	6.24	5.69	5.77	5.36	4.89	5.55	5.38	5.13	5.62	6.82	5.68	5.98	5.91	6.28				
TOPAGORUK TEST 1	94R1260		120	0.41	20	0.05	cuttings	wh rk		Jones		0.39	0.36	0.38	0.39	0.45	0.34	0.43	0.39	0.37	0.34	0.36	0.42	0.42	0.49	0.49	0.46	0.44	0.47	0.39	0.45
TOPAGORUK TEST 1	94R1261		520	0.40	20	0.06	cuttings	wh rk		Jones		0.44	0.53	0.37	0.35	0.44	0.44	0.42	0.37	0.36	0.38	0.37	0.4	0.43	0.37	0.33	0.39	0.52	0.38	0.33	0.45
TOPAGORUK TEST 1	94R1262		1000	0.48	20	0.05	cuttings	wh rk		Jones		0.51	0.42	0.41	0.44	0.37	0.45	0.48	0.5	0.49	0.45	0.48	0.47	0.51	0.52	0.52	0.53	0.57	0.44	0.5	0.53
TOPAGORUK TEST 1	94R1263		1500	0.44	8	0.03	cuttings	wh rk		Jones		0.42	0.44	0.48	0.42	0.48	0.43	0.42	0.46												
TOPAGORUK TEST 1	94R1264		2000	0.48	20	0.04	cuttings	wh rk		Jones		0.51	0.52	0.47	0.52	0.49	0.48	0.47	0.5	0.59	0.43	0.45	0.44	0.54	0.46	0.43	0.4	0.49	0.45	0.48	0.51
TOPAGORUK TEST 1	94R1265		2500	0.45	20	0.05	cuttings	wh rk		Jones		0.37	0.4	0.42	0.53	0.38	0.38	0.54	0.46	0.46	0.53	0.43	0.44	0.41	0.5	0.5	0.43	0.48	0.44	0.45	0.42
TOPAGORUK TEST 1	94R1266		3000	0.50	20	0.04	cuttings	wh rk		Jones		0.51	0.5	0.51	0.52	0.52	0.49	0.47	0.54	0.55	0.46	0.57	0.53	0.52	0.47	0.49	0.43	0.54	0.52	0.43	0.52
TOPAGORUK TEST 1	94R1267		3500	0.50	20	0.05	cuttings	wh rk		Jones		0.48	0.44	0.47	0.44	0.46	0.44	0.5	0.58	0.57	0.52	0.56	0.44	0.58	0.51	0.47	0.43	0.54	0.44	0.51	0.56
TOPAGORUK TEST 1	94R1268		4000	0.52	20	0.04	cuttings	wh rk		Jones		0.53	0.52	0.49	0.58	0.55	0.47	0.5	0.49	0.45	0.58	0.57	0.5	0.51	0.45	0.59	0.47	0.5	0.51	0.54	0.54
TOPAGORUK TEST 1	94R1269		4500	0.53	20	0.05	cuttings	wh rk		Jones		0.55	0.49	0.51	0.56	0.53	0.58	0.64	0.48	0.53	0.55	0.56	0.54	0.46	0.44	0.45	0.56	0.5	0.59	0.58	0.5
TOPAGORUK TEST 1	94R1270		5000	0.52	20	0.05	cuttings	wh rk		Jones		0.42	0.48	0.49	0.53	0.56	0.54	0.47	0.54	0.56	0.54	0.52	0.56	0.56	0.52	0.43	0.64	0.5	0.57	0.55	0.48
TOPAGORUK TEST 1	94R1271		5500	0.57	20	0.08	cuttings	wh rk		Jones		0.64	0.67	0.51	0.47	0.67	0.57	0.46	0.49	0.54	0.58	0.6	0.55	0.64	0.43	0.69	0.54	0.49	0.57	0.64	0.65
TOPAGORUK TEST 1	94R1272		6000	0.60	20	0.07	cuttings	wh rk		Jones		0.66	0.74	0.69	0.5	0.66	0.5	0.65	0.51	0.56	0.57	0.71	0.52	0.6	0.55	0.63	0.56	0.53	0.62	0.63	0.62
TOPAGORUK TEST 1	94R1273		6470	0.62	20	0.07	cuttings	wh rk		Jones		0.66	0.6	0.71	0.56	0.55	0.62	0.67	0.68	0.68	0.58	0.54	0.51	0.62	0.68	0.51	0.57	0.67	0.69	0.7	0.57
TOPAGORUK TEST 1	94R1274		7000	0.77	20	0.08	cuttings	wh rk		Jones		0.86	0.81	0.74	0.74	0.8	0.84	0.74	0.61	0.61	0.78	0.72	0.63	0.81	0.84	0.87	0.82	0.73	0.79	0.87	0.86
TOPAGORUK TEST 1	94R1275		7500	0.85	20	0.10	cuttings	wh rk		Jones		0.87	0.94	0.81	0.95	0.89	0.68	0.89	0.67	0.86	0.91	0.83	0.94	0.89	0.93	0.87	0.73	0.95	1.02	0.8	0.81
TOPAGORUK TEST 1	94R1276		8000	0.98	5	0.08	cuttings	wh rk		Jones		0.89	1.03	1.03	1.05	0.88															
TOPAGORUK TEST 1	94R1277		8500	1.01	20	0.12	cuttings	wh rk		Jones		0.94	0.93	0.94	1	0.89	1.02	0.86	0.97	1.05	1.06	1.19	1.27	1.02	0.92	0.87	0.96	0.89	1.1	1.09	1.27
TOPAGORUK TEST 1	94R1278		9000	1.02	20	0.16	cuttings	wh rk		Jones		1.06	1.24	0.76	0.97	0.97	1.15	0.9	1.2	1.18	1.23	0.94	0.91	1.03	1.27	0.88	1.18	0.96	0.88	0.75	1.01
TOPAGORUK TEST 1	94R1279		9395	1.26	12	0.10	cuttings	wh rk		Jones		1.13	1.2	1.36	1.16	1.26	1.25	1.36	1.16	1.22	1.27	1.37	1.42								
TOPAGORUK TEST 1	94R1280		10000	1.31	13	0.19	cuttings	wh rk		Jones		1.4	1.62	1.43	1.29	1.33	1.35	1.38	1.27	1.59	1.05	0.99	1.09	1.19							
TOPAGORUK TEST 1	94R1281		10417	1.50	20	0.21	cuttings	wh rk		Jones		1.54	1.56	1.77	1.28	1.88	1.61	1.78	1.56	1.56	1.34	1.47	1.24	1.45	1.44	1.71	1.21	1.56	1.18	1.67	1.13
TULAGEAK	93R7433	93BA5A	2941.5	0.55	20	0.07	core	wh rk	yes	Jones		0.49	0.53	0.45	0.57	0.49	0.59	0.45	0.50	0.48	0.50	0.49	0.57	0.56	0.63	0.64	0.51	0.65	0.60	0.53	0.68
TULAGEAK	93R7434	93BA6A	3785	0.50	10	0.04	core	wh rk	yes	Jones		0.60	0.48	0.53	0.48	0.50	0.46	0.45	0.48	0.47	0.52										
TUNALIK 1	94R0950		1200	0.52	20	0.06	cuttings	wh rk		Jones		0.52	0.51	0.47	0.49	0.49	0.51	0.66	0.55	0.58	0.46	0.47	0.41	0.52	0.49	0.58	0.5	0.5	0.59	0.54	0.48
TUNALIK 1	94R0951		1800	0.53	20	0.05	cuttings	wh rk		Jones		0.49	0.46	0.59	0.47	0.52	0.53	0.6	0.6	0.48	0.55	0.57	0.6	0.55	0.49	0.58	0.52	0.48	0.55	0.55	0.52
TUNALIK 1	94R0952		2400	0.56	20	0.07	cuttings	wh rk		Jones		0.52	0.51	0.64	0.54	0.43	0.49	0.64	0.63	0.65	0.64	0.66	0.57	0.5	0.52	0.56	0.51	0.5	0.53	0.59	0.58
TUNALIK 1	94R0953		3000	0.64	20	0.07	cuttings	wh rk		Jones		0.69	0.71	0.72	0.72	0.63	0.72	0.66	0.63	0.65	0.47	0.57	0.61	0.53	0.67	0.69	0.61	0.6	0.64	0.66	0.66
TUNALIK 1	94R0954		3280	0.66	20	0.05	core	wh rk		Jones		0.61	0.66	0.68	0.72	0.61	0.61	0.66	0.64	0.71	0.65	0.72	0.7	0.71	0.76	0.68	0.61	0.58	0.63	0.62	0.63
TUNALIK 1	94R0955		3286	0.69	8	0.07	core	wh rk		Jones		0.77	0.76	0.7	0.67	0.64	0.56	0.68	0.72												
TUNALIK 1	94R0956		3291	0.65	20	0.06	core	wh rk		Jones		0.67	0.72	0.75	0.71	0.68	0.74	0.73	0.63	0.66	0.6	0.67	0.61	0.58	0.57	0.62	0.57	0.56	0.63	0.7	0.64
TUNALIK 1	94R0957		3308	0.66	20	0.06	core	wh rk		Jones		0.63	0.6	0.57	0.58	0.68	0.62	0.64	0.74	0.7	0.68	0.67	0.69	0.64	0.66	0.63	0.76	0.76	0.7	0.81	0.73
TUNALIK 1	94R0958		3600	0.71	20	0.06	cuttings	wh rk		Jones		0.77	0.77	0.69	0.7	0.66	0.79	0.81	0.64	0.69	0.72	0.63	0.65	0.68	0.66	0.71	0.7	0.65	0.81	0.71	0.75
TUNALIK 1	94R0959		3824	0.72	12	0.07	core	wh rk		Jones		0.65	0.75	0.72	0.81	0.75	0.84	0.67	0.72	0.76	0.65	0.6	0.74								
TUNALIK 1	94R0960		3827	0.65	20	0.08	core	wh rk		Jones		0.48	0.53	0.67	0.66	0.65	0.56	0.57	0.61	0.67	0.67	0.71	0.73	0.6	0.64	0.77	0.77	0.65	0.7	0.61	0.68
TUNALIK 1	94R0961		4100	0.66	20	0.10	cuttings	wh rk		Jones		0.88	0.71	0.71	0.75	0.74	0.63	0.55	0.63	0.52	0.69	0.55	0.74	0.72	0.5	0.57	0.59	0.59	0.61	0.69	0.8
TUNALIK 1	94R0963		5100	0.69	20	0.06	cuttings	wh rk		Jones		0.7	0.67	0.74	0.71	0.67	0.76	0.78	0.81	0.59	0.69	0.64	0.67	0.65	0.66	0.7	0.75	0.69	0.59	0.66	0.74
TUNALIK 1	94R0964		5800	0.71	20	0.05	cuttings	wh rk		Jones		0.68	0.71	0.67	0.78	0.77	0.78	0.61	0.65	0.75	0.65	0.7	0.72	0.79	0.67	0.66	0.7	0.74	0.68	0.77	0.74
TUNALIK 1	94R0965A		6100	0.74	17	0.08	cuttings	wh rk		Jones		0.7	0.77	0.77	0.9	0.84	0.78	0.82	0.75	0.68	0.64	0.68	0.84	0.72	0.72	0.74	0.64	0.64			
TUNALIK 1	94R0965B		6100	1.16	3	0.08	cuttings	wh rk		Jones		1.07	1.2	1.21																	

Vitrinite Reflectance Data from NPRA Wells

Well	Lab No	Sample No	Depth top (ft)	Ro average (%)	No	stdev	Material core cuttings swc	Method wh rk isolated	Blind	Analyst DGSI ARCO Jones	con	Ro1	Ro2	Ro3	Ro4	Ro5	Ro6	Ro7	Ro8	Ro9	Ro10	Ro11	Ro12	Ro13	Ro14	Ro15	Ro16	Ro17	Ro18	Ro19	Ro20
TUNALIK 1	94R0966		6600	0.75	20	0.06	cuttings	wh rk		Jones		0.73	0.83	0.76	0.77	0.75	0.68	0.73	0.83	0.83	0.75	0.77	0.77	0.78	0.8	0.67	0.71	0.67	0.63	0.69	0.6
TUNALIK 1	94R0967		7100	0.77	9	0.07	cuttings	wh rk		Jones		0.78	0.84	0.81	0.82	0.84	0.74	0.66	0.7	0.71											
TUNALIK 1	94R0968		8100	0.78	20	0.09	cuttings	wh rk		Jones		0.79	0.85	0.76	0.67	0.82	0.66	0.8	0.83	0.86	0.67	0.84	0.64	0.62	0.9	0.75	0.77	0.95	0.89	0.77	0.8
TUNALIK 1	94R0969		8600	0.88	5	0.07	cuttings	wh rk		Jones		0.94	0.9	0.82	0.8	0.94															
TUNALIK 1	94R0970		9100	1.03	6	0.11	cuttings	wh rk		Jones		1.14	0.88	1.14	1.07	0.96	0.96														
TUNALIK 1	94R0971		9600	0.97	5	0.12	cuttings	wh rk		Jones		0.98	1.14	0.81	0.91	0.99															
TUNALIK 1	94R0972		10100	1.08	11	0.15	cuttings	wh rk		Jones		1.21	0.89	1.29	1.03	1	1.14	1.07	0.84	1.15	0.94	1.28									
TUNALIK 1	94R0973		10600	1.20	10	0.18	cuttings	wh rk		Jones		0.98	1.16	1.2	1.01	1.17	1.47	1.41	1.24	0.99	1.37										
TUNALIK 1	94R0974		10921		0		core	wh rk		Jones																					
TUNALIK 1	94R0975		11100	2.01	20	0.19	cuttings	wh rk		Jones		1.99	1.93	1.98	1.91	2.24	2.3	1.91	1.78	2.4	1.9	1.9	2.18	1.87	1.73	1.94	1.94	2.06	1.93	1.98	2.37
TUNALIK 1	94R0976		11600	2.13	20	0.28	cuttings	wh rk		Jones		2.34	2.56	2.47	2.4	2.05	1.98	2.04	1.9	1.78	2.09	2.35	1.7	2.09	2.46	2.27	2.45	1.82	1.79	1.81	2.32
TUNALIK 1	94R0977		12100	2.16	20	0.29	cuttings	wh rk		Jones		1.57	2.54	2.42	2.54	2.44	1.98	1.82	2.12	2.28	2.45	2.19	2.22	2.19	2.02	2.35	2.44	1.77	1.7	2.27	1.86
TUNALIK 1	94R0978		12600	2.31	20	0.24	cuttings	wh rk		Jones		2.2	2.3	2.28	2.29	2.36	2.36	2.49	2.88	2.13	2.16	2.12	2.12	1.8	2.31	2.25	2.24	2.44	2.09	2.7	2.63
TUNALIK 1	94R0979		13100	2.11	20	0.37	cuttings	wh rk		Jones		2.12	1.75	1.81	1.86	1.72	1.94	1.77	1.96	2.37	2.02	2.48	2.35	1.87	2.09	1.88	3.08	1.92	1.98	2.47	2.87
TUNALIK 1	94R0980		13600	2.33	6	0.47	cuttings	wh rk		Jones		1.87	2.03	3.15	2.14	2.2	2.57														
TUNALIK 1	94R0981		14000	2.05	6	0.19	cuttings	wh rk		Jones		1.82	1.88	2.19	2.15	2.3	1.98														
TUNALIK 1	94R0982		14500	2.32	20	0.34	cuttings	wh rk		Jones		1.8	1.94	2.72	1.77	2.42	2.75	2.65	2.68	2.34	2.48	2.62	2.68	2.61	2.2	2.36	2.35	2.09	2	1.8	2.05
TUNALIK 1	94R0983		15000	2.27	7	0.25	cuttings	wh rk		Jones		2.12	2.24	2.03	2.3	2.28	2.6	2.12													
TUNALIK 1	94R0984		15500		0		cuttings	wh rk		Jones																					
TUNALIK 1	94R0985		16000	3.42	2	0.66	cuttings	wh rk		Jones		3.89	2.95																		
TUNALIK 1	94R0986		16500	3.10	6	0.61	cuttings	wh rk		Jones		3.39	2.88	3.78	2.81	3.6	2.12														
TUNALIK 1	94R0987		17000	3.40	14	0.56	cuttings	wh rk		Jones		2.82	3.56	3.51	3.3	2.41	3.6	2.75	2.69	3.39	3.87	3.93	3.45	3.94	4.37						
TUNALIK 1	94R0988		17500	3.75	12	0.51	cuttings	wh rk		Jones		3.27	3.45	2.92	3.77	4.45	4.3	3.82	3.92	3.95	3.74	4.43	2.99								
TUNALIK 1	94R0989		18000	3.06	1	0.00	cuttings	wh rk		Jones		3.06																			
TUNALIK 1	94R0990		18500	3.60	2	0.08	cuttings	wh rk		Jones		3.54	3.66																		
TUNALIK 1	94R0991		19000	2.90	1	0.00	cuttings	wh rk		Jones		2.9																			
TUNALIK 1	94R0992		19500	3.17	3	0.61	cuttings	wh rk		Jones		3.07	3.83	2.62																	
TUNALIK 1	94R0993		20000	2.55	2	0.15	cuttings	wh rk		Jones		2.44	2.65																		
TUNALIK 1	94R0994		20300		0		cuttings	wh rk		Jones																					
WALAKPA /	93R5115		480	0.42	16	0.03	[illegible]	wh rk	yes	Jones		0.41	0.39	0.41	0.40	0.40	0.41	0.43	0.36	0.48	0.41	0.43	0.44	0.44	0.37	0.40	0.47				
WALAKPA /	93R5116		1080	0.44	16	0.04	[illegible]	wh rk	yes	Jones		0.46	0.49	0.49	0.43	0.43	0.48	0.41	0.40	0.47	0.43	0.40	0.43	0.47	0.41	0.37	0.54				
WALAKPA /	93R5117		1500	0.49	16	0.06	[illegible]	wh rk	yes	Jones		0.46	0.48	0.49	0.55	0.63	0.51	0.47	0.52	0.46	0.50	0.45	0.52	0.40	0.41	0.49	0.45				
WALAKPA /	93R5118		1980	0.49	16	0.04	[illegible]	wh rk	yes	Jones		0.49	0.44	0.51	0.48	0.42	0.50	0.46	0.57	0.49	0.43	0.52	0.52	0.47	0.45	0.52	0.57				
WALAKPA /	93R5119		2490	0.52	10	0.06	[illegible]	wh rk	yes	Jones		0.48	0.41	0.61	0.53	0.57	0.56	0.55	0.59	0.46	0.50										
WALAKPA /	93R5120		2990	0.50	7	0.05	[illegible]	wh rk	yes	Jones		0.47	0.50	0.44	0.58	0.54	0.50	0.50													
WALAKPA /	93R5121		3490	0.57	6	0.06	[illegible]	wh rk	yes	Jones		0.62	0.51	0.60	0.64	0.50	0.54														
WALAKPA /	93R5122		3640	0.52	16	0.06	[illegible]	wh rk	yes	Jones		0.53	0.42	0.43	0.47	0.54	0.50	0.52	0.53	0.62	0.58	0.59	0.61	0.50	0.56	0.42	0.52				
WALAKPA 1	93R7426	93BA114A	275	0.41	20	0.04	core	wh rk	yes	Jones		0.38	0.41	0.35	0.43	0.43	0.45	0.43	0.39	0.41	0.44	0.35	0.42	0.44	0.41	0.44	0.37	0.36	0.44	0.48	0.39
WALAKPA 1	93R7427	93BA114B	2111	0.45	20	0.04	core	wh rk	yes	Jones		0.50	0.47	0.40	0.50	0.47	0.49	0.51	0.45	0.43	0.41	0.45	0.47	0.46	0.41	0.38	0.49	0.39	0.44	0.53	0.40
WALAKPA 1	93R7428	93BA114C	3085	0.46	20	0.04	core	wh rk	yes	Jones		0.47	0.47	0.53	0.44	0.47	0.51	0.50	0.43	0.40	0.45	0.40	0.45	0.44	0.50	0.49	0.41	0.46	0.44	0.40	0.48
WALAKPA 1	93R7429	93BA114D	3659	3.79	20	0.46	core	wh rk	yes	Jones		3.53	3.85	2.80	4.08	3.94	3.77	3.50	4.85	4.15	3.78	3.82	3.56	3.79	4.78	3.60	3.62	3.48	3.93	3.70	3.24