



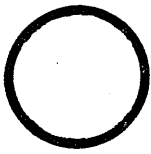
APPENDIX 10.

VITRINITE.  
REFLECTANCE.

PINE LODGE-1

W1034

P5758



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GAS & FUEL EXPLORATION N.L.

KEIRAVILLE KONSULTANTS  
PTY. LTD.

7 DALLAS STREET,  
KEIRAVILLE, N.S.W.  
AUSTRALIA, 2500

To

Gas and Fuel Exploration N.L.  
Box 1841Q, G.P.O.  
MELBOURNE 3001  
Victoria

INVOICE NO. 1742

PURCHASE ORDER NO. 00339

30.10.90

DESCRIPTION	AMOUNT
Vitrinite Reflectance Results:  17 samples from Pine Lodge No. 1 @ \$85.00 per sample v3010-v3026	\$1445.00
<b>TERMS: NETT 14 DAYS</b>	<b>AMOUNT DUE</b>  \$1445.00

## PINE LODGE NO 1

A1/1

K.K. No.	Depth (m)	$\bar{R}_v$ max	Range ✓	N	Description Including Liptinite (Exinite) Fluorescence
v3010	740 SWC	0.36	0.29-0.44	26	Sparse liptodetrinite, yellow to orange, rare resinite and sporinite, yellow to orange, rare cutinite, orange. (Siltstone, partly calcareous. Dom abundant, V>>L>I. Vitrinite abundant, inertinite and liptinite sparse. Bitumen rare, orange. Mineral fluorescence pervasive, faint green. Fossil fragments sparse. Iron oxide abundant. Pyrite common.)
v3011	1030 SWC	0.37	0.30-0.44	27	Sparse liptodetrinite and phytoplankton, yellow to orange, rare cutinite, sporinite and resinite, yellow to orange. (Calcareous siltstone>claystone. Dom common, V>L=I. Vitrinite common, inertinite and liptinite sparse. Bitumen rare, yellow to orange. Mineral fluorescence pervasive, faint green. Fossil fragments sparse. Iron oxide and pyrite abundant.)
v3012	1070 SWC	0.45	0.35-0.57	26	Sparse liptodetrinite, yellow to orange, rare phytoplankton, yellow to orange, rare cutinite and sporinite, orange, rare bituminite, brown to nonfluorescent. (Pyritic siltstone>pyritic sandstone. Dom common, I>L=V. All maceral groups sparse. Mineral fluorescence pervasive, faint green. Fossil fragments rare. Iron oxide sparse. Pyrite major.)
v3013	1123.5 SWC	0.37	0.29-0.49	27	Sparse liptodetrinite and sporinite, yellow to orange, rare phytoplankton, yellow, rare cutinite, orange, rare bituminite, brown to nonfluorescent. (Siltstone, partly calcareous. Dom abundant, V>I>>L. Vitrinite abundant, inertinite common, liptinite sparse. Mineral fluorescence pervasive, faint green. Fossil fragments rare. Iron oxide abundant. Pyrite common.)
v3014	1300 SWC	0.45	0.36-0.59	28	Rare liptodetrinite and resinite, yellow to orange, rare phytoplankton, yellow, rare cutinite and sporinite, orange. (Siltstone, partly calcareous. Dom common, I>V>L. Inertinite common, vitrinite and liptinite sparse. Bitumen rare, orange. Oil drops rare, yellow. Mineral fluorescence pervasive, faint green. Fossil fragments rare. Iron oxide abundant. Pyrite common.)
v3015	1624 SWC	0.44	0.34-0.55	26	Sparse cutinite and sporinite, orange, sparse liptodetrinite, yellow to orange, rare resinite and phytoplankton, yellow. (Siltstone, partly calcareous>> claystone. Dom abundant, V>I>L. Inertinite abundant, vitrinite common, liptinite sparse. Mineral fluorescence pervasive, faint green. Fossil fragments rare. Iron oxide and pyrite common.)

## PINE LODGE NO 1

A1/2

K.K. No.	Depth (m)	$\bar{R}_v$ max	Range	N	Description Including Liptinite (Exinite) Fluorescence
v3016	1787 SWC	0.47	0.40-0.56	27	Sparse liptodetrinite, yellow to orange, sparse sporinite, orange, rare cutinite, orange, rare resinite and phytoplankton, yellow. (Siltstone, partly calcareous. Dom abundant, I>V>L. Inertinite abundant, vitrinite common, liptinite sparse. Oil drops rare, yellow. Bitumen rare, dull orange to brown. Mineral fluorescence pervasive, faint green. Fossil fragments sparse. Iron oxide common. Pyrite abundant.)
v3017	1815 SWC	0.45	0.35-0.54	28	Sparse liptodetrinite, yellow to orange, rare resinite, yellow to orange, rare cutinite and sporinite, orange, rare phytoplankton, yellow. (Calcareous siltstone. Dom abundant, I>V>L. Inertinite abundant, vitrinite and liptinite sparse. Oil drops rare, yellow. Mineral fluorescence pervasive, faint green. fossil fragments rare. Iron oxide and pyrite common.)
v3018	1898 SWC	0.54	0.40-0.68	27	Sparse phytoplankton, yellow, sparse liptodetrinite, yellow to orange, rare resinite, yellow to orange, rare cutinite and sporinite, orange, rare suberinite, brown to nonfluorescent. (Calcareous siltstone. Dom abundant, I>V>L. Inertinite abundant, vitrinite common, liptinite sparse. Oil drops rare, yellow. Mineral fluorescence pervasive, faint green. Fossil fragments sparse. Iron oxide abundant. Pyrite common.)
v3019	1931 SWC	0.53	0.41-0.64	27	Rare cutinite and sporinite, orange, rare liptodetrinite and resinite, yellow to orange, rare phytoplankton, yellow. (Calcareous siltstone>carbonate. Dom abundant, I>V>L. Inertinite abundant, vitrinite common, liptinite sparse. Oil drops rare, yellow. Fossil fragments rare. Iron oxide and pyrite common.)
v3020	2007 SWC	0.50	0.44-0.55	27	Rare liptodetrinite and phytoplankton, yellow to orange, rare cutinite, orange to dull orange, rare resinite, yellow, rare sporinite, orange. (Carbonate>calcareous siltstone. Dom abundant, V>L>I. Vitrinite and inertinite common, liptinite sparse. Oil drops rare, yellow. Bitumen rare. dull orange to brown. Mineral fluorescence pervasive, faint green. Fossil fragments rare. Iron oxide abundant. Pyrite common.)

K.K. No.	Depth (m)	$\bar{R}_v$ max	Range	N	Description Including Liptinite (Exinite) Fluorescence
v3021	2030 SWC	0.57	0.45-0.63	27	Sparse liptodetrinite, yellow to orange, sparse sporinite, orange to dull orange, rare cutinite, orange to dull orange, rare resinite and phytoplankton, yellow to orange. (Siltstone, partly calcareous. Dom abundant, V>I>L. Vitrinite and inertinite common, liptinite sparse. Bitumen rare, green to orange. Mineral fluorescence pervasive, faint green. Fossil fragments rare. Iron oxide and pyrite abundant.)
v3022	2052.5 SWC	0.57	0.47-0.69	27	Rare resinite, liptodetrinite and phytoplankton, yellow to orange, rare cutinite, orange to dull orange, rare sporinite, orange. (Partly calcareous siltstone> sandstone. Dom abundant, I>V>L. Inertinite abundant, vitrinite common, liptinite sparse. Oil drops rare, yellow. Mineral fluorescence pervasive, faint green. Fossil fragments rare. Iron oxide and pyrite abundant.)
v3023	2076.5 SWC	0.59	0.51-0.68	26	Sparse liptodetrinite, yellow to orange, rare phytoplankton, yellow to orange, rare sporinite and cutinite, orange. (Partly calcareous siltstone> sandstone. Dom abundant, I>V>L. Inertinite abundant, vitrinite common, liptinite sparse. Oil drops rare, yellow. Mineral fluorescence pervasive, faint green. Fossil fragments rare. Iron oxide abundant. Pyrite common.)
v3024	2091 SWC	0.63	0.48-0.71	28	Sparse liptodetrinite, yellow to orange, rare phytoplankton, yellow to orange, rare resinite, yellow, rare cutinite, orange to dull orange, rare sporinite, orange. (Partly calcareous siltstone. Dom abundant, I>V>L. Inertinite and vitrinite common, liptinite sparse. Bitumen rare, yellow to orange. Oil drops rare, yellow. Fossil fragments rare. Iron oxide abundant. Pyrite common.)
v3025	2121.5 SWC	0.47	0.38-0.60	27	Major sporinite, yellow to dull orange, major suberinite brown nonfluorescing, abundant resinite, yellow to orange, abundant liptodetrinite yellow to dull orange. (Cannel coal only, L>V>I. Coal maceral group composition, mmf: Vitrinite = 31.0% Inertinite = 9.0% Liptinite = 60.0% Rare pyrolytic carbon. Major fluorescing vitrinite, dull brown. Iron oxide and pyrite sparse.)

## PINE LODGE NO 1

A1/4

K.K. No.	Depth (m)	$\bar{R}_v$ max	Range	N	Description Including Liptinite (Exinite) Fluorescence
v3026	2135 SWC	0.58	0.49-0.68	27	Sparse liptodetrinite, yellow to orange, sparse sporinite and rare cutinite, orange, rare resinite and phytoplankton, yellow to orange. (Partly calcareous siltstone. Dom abundant, V>I>L. Vitrinite and inertinite common, liptinite sparse. Bitumen rare, brown to nonfluorescing. Oil drops rare, yellow. Fossil fragments sparse. Iron oxide abundant. Pyrite sparse.)

VITRINITE REFLECTANCE WORKSHEET

GAS FUEL  
 WELL NAME PINE LODGE-1 ..... SAMPLE NO. V3010 ..... DEPTH 750 M ..... TYPE SWC .....

FGV = First Generation Vitrinite - I = Inertinite

Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type
.10				.46				.82				1.18				1.54				1.90			
.11				.47				.83				1.19				1.55				1.91			
.12				.48				.84				1.20				1.56				1.92			
.13				.49				.85				1.21				1.57				1.93			
.14				.50				.86				1.22				1.58				1.94			
.15				.51				.87				1.23				1.59				1.95			
.16				.52				.88				1.24				1.60				1.96			
.17				.53				.89				1.25				1.61				1.97			
.18				.54				.90				1.26				1.62				1.98			
.19				.55				.91				1.27				1.63				1.99			
.20				.56				.92				1.28				1.64				2.00			
.21				.57				.93				1.29				1.65				2.01			
.22				.58				.94				1.30				1.66				2.02			
.23				.59				.95				1.31				1.67				2.03			
.24				.60				.96				1.32				1.68				2.04			
.25				.61				.97				1.33				1.69				2.05			
.26				.62				.98				1.34				1.70				2.06			
.27				.63				.99				1.35				1.71				2.07			
.28				.64				1.00				1.36				1.72				2.08			
.29	1	∧		.65				1.01				1.37				1.73				2.09			
.30				.66				1.02				1.38				1.74				2.10			
.31	1			.67				1.03				1.39				1.75				2.11			
.32				.68				1.04				1.40				1.76				2.12			
.33	6			.69				1.05				1.41				1.77				2.13			
.34	4			.70				1.06				1.42				1.78				2.14			
.35	3			.71				1.07				1.43				1.79				2.15			
.36	4		FGV	.72				1.08				1.44				1.80							
.37				.73				1.09				1.45				1.81							Organic matter Comp. (%)
.38	1			.74				1.10				1.46				1.82							Exinite
.39				.75				1.11				1.47				1.83							Alginite
.40	3			.76				1.12				1.48				1.84							0.4
.41				.77				1.13				1.49				1.85							
.42	2			.78				1.14				1.50				1.86							Vitrinite
.43				.79				1.15				1.51				1.87							Inertinite
.44	1	∨		.80				1.16				1.52				1.88							3.0
.45				.81				1.17				1.53				1.89							0.2

VITRINITE REFLECTANCE WORKSHEET

WELL NAME GAS & FUEL PINE LODGE-1

SAMPLE NO. V3011

DEPTH. 1030 M

TYPE. SWC

FGV = First Generation Vitrinite I = Inertinite

Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type
.10				.46				.82				1.18				1.54				1.90			
.11				.47				.83				1.19				1.55				1.91			
.12				.48				.84				1.20				1.56				1.92			
.13				.49				.85				1.21				1.57				1.93			
.14				.50				.86				1.22				1.58				1.94			
.15				.51				.87				1.23				1.59				1.95			
.16				.52				.88				1.24				1.60				1.96			
.17				.53				.89				1.25				1.61				1.97			
.18				.54				.90				1.26				1.62				1.98			
.19				.55				.91				1.27				1.63				1.99			
.20				.56				.92				1.28				1.64				2.00			
.21				.57				.93				1.29				1.65				2.01			
.22				.58				.94				1.30				1.66				2.02			
.23				.59				.95				1.31				1.67				2.03			
.24				.60				.96				1.32				1.68				2.04			
.25				.61				.97				1.33				1.69				2.05			
.26				.62				.98				1.34				1.70				2.06			
.27				.63				.99				1.35				1.71				2.07			
.28				.64				1.00				1.36				1.72				2.08			
.29				.65				1.01				1.37				1.73				2.09			
.30	1	↑		.66				1.02				1.38				1.74				2.10			
.31				.67				1.03				1.39				1.75				2.11			
.32	2			.68				1.04				1.40				1.76				2.12			
.33	4			.69				1.05				1.41				1.77				2.13			
.34	2			.70				1.06				1.42				1.78				2.14			
.35	1			.71				1.07				1.43				1.79				2.15			
.36	<del>2</del>			.72				1.08				1.44				1.80							
.37	1		FGV	.73				1.09				1.45				1.81				Organic matter Comp. (%)			
.38	2			.74				1.10				1.46				1.82				Exinite		Alginite	
.39				.75				1.11				1.47				1.83				0.2			
.40	1			.76				1.12				1.48				1.84							
.41	3			.77				1.13				1.49				1.85				Vitrinite		Inertinite	
.42	2			.78				1.14				1.50				1.86							
.43	2			.79				1.15				1.51				1.87							
.44	2		↓	.80				1.16				1.52				1.88				1.0		0.2	
.45				.81				1.17				1.53				1.89							



VITRINITE REFLECTANCE WORKSHEET

GAS FUEL

WELL NAME PINE LODGE-1

SAMPLE NO. V3012

DEPTH 1070 M

TYPE SWC

FGV = First Generation Vitrinite I = Inertinite

Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type		
.10				.46				.82				1.18				1.54				1.90					
.11				.47	2			.83				1.19				1.55				1.91					
.12				.48	4			.84				1.20				1.56				1.92					
.13				.49	2			.85				1.21				1.57				1.93					
.14				.50				.86				1.22				1.58				1.94					
.15				.51	2			.87				1.23				1.59				1.95					
.16				.52	1			.88				1.24				1.60				1.96					
.17				.53				.89				1.25				1.61				1.97					
.18				.54	1			.90				1.26				1.62				1.98					
.19				.55				.91				1.27				1.63				1.99					
.20				.56				.92				1.28				1.64				2.00					
.21				.57	1	✓		.93				1.29				1.65				2.01					
.22				.58				.94				1.30				1.66				2.02					
.23				.59				.95				1.31				1.67				2.03					
.24				.60				.96				1.32				1.68				2.04					
.25				.61				.97				1.33				1.69				2.05					
.26				.62				.98				1.34				1.70				2.06					
.27				.63				.99				1.35				1.71				2.07					
.28				.64				1.00				1.36				1.72				2.08					
.29				.65				1.01				1.37				1.73				2.09					
.30				.66				1.02				1.38				1.74				2.10					
.31				.67				1.03				1.39				1.75				2.11					
.32				.68				1.04				1.40				1.76				2.12					
.33				.69				1.05				1.41				1.77				2.13					
.34				.70				1.06				1.42				1.78				2.14					
.35	3	↑		.71				1.07				1.43				1.79				2.15					
.36	2			.72				1.08				1.44				1.80				Organic matter Comp. (%)					
.37				.73				1.09				1.45				1.81				Exinite	Alginite				
.38	1			.74				1.10				1.46				1.82									
.39				.75				1.11				1.47				1.83				0.1	-				
.40				.76				1.12				1.48				1.84				Vitrinite					
.41	1			.77				1.13				1.49				1.85									
.42	3			.78				1.14				1.50				1.86				Inertinite					
.43	1			.79				1.15				1.51				1.87									
.44	2			.80				1.16				1.52				1.88				0.1	0.4				
.45			FGV	.81				1.17				1.53				1.89									

VITRINITE REFLECTANCE WORKSHEET

GAS FUEL  
WELL NAME. PINE LODGE-1.....

SAMPLE NO. V3013.....

DEPTH. 1123.5 M.....

TYPE. SWC.....

FGV = First Generation Vitrinite - I = Inertinite

Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type
.10				.46				.82				1.18				1.54				1.90			
.11				.47	1			.83				1.19				1.55				1.91			
.12				.48				.84				1.20				1.56				1.92			
.13				.49	1	↓		.85				1.21				1.57				1.93			
.14				.50				.86				1.22				1.58				1.94			
.15				.51				.87				1.23				1.59				1.95			
.16				.52				.88				1.24				1.60				1.96			
.17				.53				.89				1.25				1.61				1.97			
.18				.54				.90				1.26				1.62				1.98			
.19				.55				.91				1.27				1.63				1.99			
.20				.56				.92				1.28				1.64				2.00			
.21				.57				.93				1.29				1.65				2.01			
.22				.58				.94				1.30				1.66				2.02			
.23				.59				.95				1.31				1.67				2.03			
.24				.60				.96				1.32				1.68				2.04			
.25				.61				.97				1.33				1.69				2.05			
.26				.62				.98				1.34				1.70				2.06			
.27				.63				.99				1.35				1.71				2.07			
.28				.64				1.00				1.36				1.72				2.08			
.29	1	↑		.65				1.01				1.37				1.73				2.09			
.30	1			.66				1.02				1.38				1.74				2.10			
.31	2			.67				1.03				1.39				1.75				2.11			
.32	3			.68				1.04				1.40				1.76				2.12			
.33	1			.69				1.05				1.41				1.77				2.13			
.34	3			.70				1.06				1.42				1.78				2.14			
.35	3			.71				1.07				1.43				1.79				2.15			
.36	2			.72				1.08				1.44				1.80							
.37	1		FGV	.73				1.09				1.45				1.81							Organic matter Comp. (%)
.38	2			.74				1.10				1.46				1.82							Exinite
.39	1			.75				1.11				1.47				1.83							Alginite
.40	1			.76				1.12				1.48				1.84							0.4
.41	1			.77				1.13				1.49				1.85							
.42				.78				1.14				1.50				1.86							Vitrinite
.43				.79				1.15				1.51				1.87							Inertinite
.44	3			.80				1.16				1.52				1.88							4.0
.45				.81				1.17				1.53				1.89							1.8

VITRINITE REFLECTANCE WORKSHEET

WELL NAME GAS FUEL PINE LODGE-1

SAMPLE NO. V3014

DEPTH 1300 M

TYPE SWC

FGV = First Generation Vitrinite I = Inertinite

Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type
.10				.46	2			.82				1.18				1.54				1.90			
.11				.47				.83				1.19				1.55				1.91			
.12				.48	1			.84				1.20				1.56				1.92			
.13				.49	1			.85				1.21				1.57				1.93			
.14				.50				.86				1.22				1.58				1.94			
.15				.51	2			.87				1.23				1.59				1.95			
.16				.52	1			.88				1.24				1.60				1.96			
.17				.53				.89				1.25				1.61				1.97			
.18				.54	2			.90				1.26				1.62				1.98			
.19				.55	1			.91				1.27				1.63				1.99			
.20				.56	1			.92				1.28				1.64				2.00			
.21				.57				.93				1.29				1.65				2.01			
.22				.58				.94				1.30				1.66				2.02			
.23				.59	1	✓		.95				1.31				1.67				2.03			
.24				.60				.96				1.32				1.68				2.04			
.25				.61				.97				1.33				1.69				2.05			
.26				.62				.98				1.34				1.70				2.06			
.27				.63				.99				1.35				1.71				2.07			
.28				.64				1.00				1.36				1.72				2.08			
.29				.65				1.01				1.37				1.73				2.09			
.30				.66				1.02				1.38				1.74				2.10			
.31				.67				1.03				1.39				1.75				2.11			
.32				.68				1.04				1.40				1.76				2.12			
.33				.69				1.05				1.41				1.77				2.13			
.34				.70				1.06				1.42				1.78				2.14			
.35				.71				1.07				1.43				1.79				2.15			
.36	1	↑		.72				1.08				1.44				1.80				Organic matter Comp. (%)			
.37	3			.73				1.09				1.45				1.81				Exinite	Alginite		
.38	2			.74				1.10				1.46				1.82				0.2	-		
.39	2			.75				1.11				1.47				1.83							
.40	1			.76				1.12				1.48				1.84							
.41	1			.77				1.13				1.49				1.85				Vitrinite	Inertinite		
.42	1			.78				1.14				1.50				1.86							
.43				.79				1.15				1.51				1.87							
.44	2			.80				1.16				1.52				1.88				0.4	1.5		
.45	2		FGV	.81				1.17				1.53				1.89							

GAS FUEL

VITRINITE REFLECTANCE WORKSHEET

WELL NAME PINE LODGE-1

SAMPLE NO. V3015

DEPTH 162.4 M

TYPE SWC

FGV = First Generation Vitrinite I = Inertinite

Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type
.10				.46	2			.82				1.18				1.54				1.90			
.11				.47	2			.83				1.19				1.55				1.91			
.12				.48	1			.84				1.20				1.56				1.92			
.13				.49	1			.85				1.21				1.57				1.93			
.14				.50	3			.86				1.22				1.58				1.94			
.15				.51				.87				1.23				1.59				1.95			
.16				.52	1			.88				1.24				1.60				1.96			
.17				.53	1			.89				1.25				1.61				1.97			
.18				.54				.90				1.26				1.62				1.98			
.19				.55	1	✓		.91				1.27				1.63				1.99			
.20				.56				.92				1.28				1.64				2.00			
.21				.57				.93				1.29				1.65				2.01			
.22				.58				.94				1.30				1.66				2.02			
.23				.59				.95				1.31				1.67				2.03			
.24				.60				.96				1.32				1.68				2.04			
.25				.61				.97				1.33				1.69				2.05			
.26				.62				.98				1.34				1.70				2.06			
.27				.63				.99				1.35				1.71				2.07			
.28				.64				1.00				1.36				1.72				2.08			
.29				.65				1.01				1.37				1.73				2.09			
.30				.66				1.02				1.38				1.74				2.10			
.31				.67				1.03				1.39				1.75				2.11			
.32				.68				1.04				1.40				1.76				2.12			
.33				.69				1.05				1.41				1.77				2.13			
.34	1	↑		.70				1.06				1.42				1.78				2.14			
.35				.71				1.07				1.43				1.79				2.15			
.36	4			.72				1.08				1.44				1.80							
.37				.73				1.09				1.45				1.81							
.38	3			.74				1.10				1.46				1.82							
.39	2			.75				1.11				1.47				1.83				0.3			
.40				.76				1.12				1.48				1.84							
.41	2			.77				1.13				1.49				1.85							
.42	1			.78				1.14				1.50				1.86							
.43				.79				1.15				1.51				1.87							
.44			FGV	.80				1.16				1.52				1.88				0.7			3.0
.45	1			.81				1.17				1.53				1.89							

VITRINITE REFLECTANCE WORKSHEET

GAS FUEL  
WELL NAME. PINE LODGE-1.....

SAMPLE NO. V3016.....

DEPTH. 1787 M.....

TYPE. SWC.....

FGV = First Generation Vitrinite - I = Inertinite

Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type
.10				.46	2			.82				1.18				1.54				1.90			
.11				.47			FGV	.83				1.19				1.55				1.91			
.12				.48				.84				1.20				1.56				1.92			
.13				.49	2			.85				1.21				1.57				1.93			
.14				.50	2			.86				1.22				1.58				1.94			
.15				.51	1			.87				1.23				1.59				1.95			
.16				.52	1			.88				1.24				1.60				1.96			
.17				.53	2			.89				1.25				1.61				1.97			
.18				.54	3			.90				1.26				1.62				1.98			
.19				.55				.91				1.27				1.63				1.99			
.20				.56	2	✓		.92				1.28				1.64				2.00			
.21				.57				.93				1.29				1.65				2.01			
.22				.58				.94				1.30				1.66				2.02			
.23				.59				.95				1.31				1.67				2.03			
.24				.60				.96				1.32				1.68				2.04			
.25				.61				.97				1.33				1.69				2.05			
.26				.62				.98				1.34				1.70				2.06			
.27				.63				.99				1.35				1.71				2.07			
.28				.64				1.00				1.36				1.72				2.08			
.29				.65				1.01				1.37				1.73				2.09			
.30				.66				1.02				1.38				1.74				2.10			
.31				.67				1.03				1.39				1.75				2.11			
.32				.68				1.04				1.40				1.76				2.12			
.33				.69				1.05				1.41				1.77				2.13			
.34				.70				1.06				1.42				1.78				2.14			
.35				.71				1.07				1.43				1.79				2.15			
.36				.72				1.08				1.44				1.80							
.37				.73				1.09				1.45				1.81							
.38				.74				1.10				1.46				1.82							
.39				.75				1.11				1.47				1.83							
.40	2	↑		.76				1.12				1.48				1.84							
.41	3			.77				1.13				1.49				1.85							
.42	1			.78				1.14				1.50				1.86							
.43	3			.79				1.15				1.51				1.87							
.44				.80				1.16				1.52				1.88							
.45	3			.81				1.17				1.53				1.89							
																		Organic matter Comp. (%)					
																		Exinite	Alginite				
																		0.3					
																		Vitrinite	Inertinite				
																		1.0		3.0			

VITRINITE REFLECTANCE WORKSHEET

GAS FUEL  
WELL NAME. PINE LODGE-1

SAMPLE NO. V3017

DEPTH. 1815 M

TYPE. SWC

FGV = First Generation Vitrinite    I = Inertinite

Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type
.10				.46	2			.82				1.18				1.54				1.90			
.11				.47	1			.83				1.19				1.55				1.91			
.12				.48	2			.84				1.20				1.56				1.92			
.13				.49	3			.85				1.21				1.57				1.93			
.14				.50	3			.86				1.22				1.58				1.94			
.15				.51	1			.87				1.23				1.59				1.95			
.16				.52	1			.88				1.24				1.60				1.96			
.17				.53				.89				1.25				1.61				1.97			
.18				.54	2	↓		.90				1.26				1.62				1.98			
.19				.55				.91				1.27				1.63				1.99			
.20				.56				.92				1.28				1.64				2.00			
.21				.57				.93				1.29				1.65				2.01			
.22				.58				.94				1.30				1.66				2.02			
.23				.59				.95				1.31				1.67				2.03			
.24				.60				.96				1.32				1.68				2.04			
.25				.61				.97				1.33				1.69				2.05			
.26				.62				.98				1.34				1.70				2.06			
.27				.63				.99				1.35				1.71				2.07			
.28				.64				1.00				1.36				1.72				2.08			
.29				.65				1.01				1.37				1.73				2.09			
.30				.66				1.02				1.38				1.74				2.10			
.31				.67				1.03				1.39				1.75				2.11			
.32				.68				1.04				1.40				1.76				2.12			
.33				.69				1.05				1.41				1.77				2.13			
.34				.70				1.06				1.42				1.78				2.14			
.35	2	↑		.71				1.07				1.43				1.79				2.15			
.36	1			.72				1.08				1.44				1.80							
.37	1			.73				1.09				1.45				1.81							
.38	1			.74				1.10				1.46				1.82							
.39	2			.75				1.11				1.47				1.83				0.2			
.40	2			.76				1.12				1.48				1.84							
.41				.77				1.13				1.49				1.85							
.42				.78				1.14				1.50				1.86							
.43	1			.79				1.15				1.51				1.87				0.3			
.44	1			.80				1.16				1.52				1.88							
.45	2		FGV	.81				1.17				1.53				1.89							
																				Organic matter Comp. (%)			
																				Exinite		Alginite	
																				0.2		—	
																				Vitrinite		Inertinite	
																				0.3		2.5	

VITRINITE REFLECTANCE WORKSHEET

GAS FUEL  
WELL NAME. PINE LODGE-1

SAMPLE NO. V3018

DEPTH. 1898 M

TYPE. SWC

FGV = First Generation Vitrinite I = Inertinite

Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type
.10				.46				.82				1.18				1.54				1.90			
.11				.47				.83				1.19				1.55				1.91			
.12				.48	3			.84				1.20				1.56				1.92			
.13				.49				.85				1.21				1.57				1.93			
.14				.50				.86				1.22				1.58				1.94			
.15				.51	3			.87				1.23				1.59				1.95			
.16				.52	2			.88				1.24				1.60				1.96			
.17				.53	1			.89				1.25				1.61				1.97			
.18				.54	1		FGV	.90				1.26				1.62				1.98			
.19				.55	1			.91				1.27				1.63				1.99			
.20				.56	2			.92				1.28				1.64				2.00			
.21				.57	1			.93				1.29				1.65				2.01			
.22				.58	1			.94				1.30				1.66				2.02			
.23				.59				.95				1.31				1.67				2.03			
.24				.60	1			.96				1.32				1.68				2.04			
.25				.61	1			.97				1.33				1.69				2.05			
.26				.62	1			.98				1.34				1.70				2.06			
.27				.63				.99				1.35				1.71				2.07			
.28				.64	1			1.00				1.36				1.72				2.08			
.29				.65	1			1.01				1.37				1.73				2.09			
.30				.66				1.02				1.38				1.74				2.10			
.31				.67				1.03				1.39				1.75				2.11			
.32				.68	1	V		1.04				1.40				1.76				2.12			
.33				.69				1.05				1.41				1.77				2.13			
.34				.70				1.06				1.42				1.78				2.14			
.35				.71				1.07				1.43				1.79				2.15			
.36				.72				1.08				1.44				1.80							
.37				.73				1.09				1.45				1.81							Organic matter Comp.(%)
.38				.74				1.10				1.46				1.82							Exinite
.39				.75				1.11				1.47				1.83							Alginite
.40	1	A		.76				1.12				1.48				1.84				0.3			-
.41				.77				1.13				1.49				1.85							
.42				.78				1.14				1.50				1.86							Vitrinite
.43	1			.79				1.15				1.51				1.87							Inertinite
.44	1			.80				1.16				1.52				1.88				0.6			3.0
.45	1			.81				1.17				1.53				1.89							

GAS FUEL

VITRINITE REFLECTANCE WORKSHEET

WELL NAME PINE LODGE-1

SAMPLE NO. V3019

DEPTH 1931 M

TYPE SWC

FGV = First Generation Vitrinite I = Inertinite

Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type
.10				.46				.82				1.18				1.54				1.90			
.11				.47	1			.83				1.19				1.55				1.91			
.12				.48				.84				1.20				1.56				1.92			
.13				.49	4			.85				1.21				1.57				1.93			
.14				.50	1			.86				1.22				1.58				1.94			
.15				.51	2			.87				1.23				1.59				1.95			
.16				.52	3			.88				1.24				1.60				1.96			
.17				.53	1		FGV	.89				1.25				1.61				1.97			
.18				.54	1			.90				1.26				1.62				1.98			
.19				.55				.91				1.27				1.63				1.99			
.20				.56				.92				1.28				1.64				2.00			
.21				.57	3			.93				1.29				1.65				2.01			
.22				.58	3			.94				1.30				1.66				2.02			
.23				.59				.95				1.31				1.67				2.03			
.24				.60	1			.96				1.32				1.68				2.04			
.25				.61	1			.97				1.33				1.69				2.05			
.26				.62				.98				1.34				1.70				2.06			
.27				.63	1			.99				1.35				1.71				2.07			
.28				.64	1	✓		1.00				1.36				1.72				2.08			
.29				.65				1.01				1.37				1.73				2.09			
.30				.66				1.02				1.38				1.74				2.10			
.31				.67				1.03				1.39				1.75				2.11			
.32				.68				1.04				1.40				1.76				2.12			
.33				.69				1.05				1.41				1.77				2.13			
.34				.70				1.06				1.42				1.78				2.14			
.35				.71				1.07				1.43				1.79				2.15			
.36				.72				1.08				1.44				1.80							
.37				.73				1.09				1.45				1.81							
.38				.74				1.10				1.46				1.82							
.39				.75				1.11				1.47				1.83							
.40				.76				1.12				1.48				1.84							
.41	1	↑		.77				1.13				1.49				1.85							
.42	1			.78				1.14				1.50				1.86							
.43				.79				1.15				1.51				1.87							
.44	1			.80				1.16				1.52				1.88							
.45	1			.81				1.17				1.53				1.89							

Organic matter Comp. (%)  
 Exinite Alginite  
 0.1  
 Vitrinite Inertinite  
 0.6 2.5



VITRINITE REFLECTANCE WORKSHEET

GAS FUEL  
WELL NAME PINE LODGE-1

SAMPLE NO. V3020

DEPTH 2007 M

TYPE SWC

FGV = First Generation Vitrinite I = Inertinite

Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type
.10				.46	1			.82				1.18				1.54				1.90			
.11				.47	3			.83				1.19				1.55				1.91			
.12				.48	9			.84				1.20				1.56				1.92			
.13				.49	2			.85				1.21				1.57				1.93			
.14				.50	6		FGV	.86				1.22				1.58				1.94			
.15				.51	3			.87				1.23				1.59				1.95			
.16				.52	5			.88				1.24				1.60				1.96			
.17				.53	1			.89				1.25				1.61				1.97			
.18				.54	1		V	.90				1.26				1.62				1.98			
.19				.55	1			.91				1.27				1.63				1.99			
.20				.56				.92				1.28				1.64				2.00			
.21				.57				.93				1.29				1.65				2.01			
.22				.58				.94				1.30				1.66				2.02			
.23				.59				.95				1.31				1.67				2.03			
.24				.60				.96				1.32				1.68				2.04			
.25				.61				.97				1.33				1.69				2.05			
.26				.62				.98				1.34				1.70				2.06			
.27				.63				.99				1.35				1.71				2.07			
.28				.64				1.00				1.36				1.72				2.08			
.29				.65				1.01				1.37				1.73				2.09			
.30				.66				1.02				1.38				1.74				2.10			
.31				.67				1.03				1.39				1.75				2.11			
.32				.68				1.04				1.40				1.76				2.12			
.33				.69				1.05				1.41				1.77				2.13			
.34				.70				1.06				1.42				1.78				2.14			
.35				.71				1.07				1.43				1.79				2.15			
.36				.72				1.08				1.44				1.80							
.37				.73				1.09				1.45				1.81							
.38				.74				1.10				1.46				1.82							
.39				.75				1.11				1.47				1.83							
.40				.76				1.12				1.48				1.84							
.41				.77				1.13				1.49				1.85							
.42				.78				1.14				1.50				1.86							
.43				.79				1.15				1.51				1.87							
.44	2	↑		.80				1.16				1.52				1.88							
.45				.81				1.17				1.53				1.89							

Organic matter Comp. (%)  
 Exinite Alginite  
 0.1 ✓  
 Vitrinite Inertinite  
 1.4 0.8

GAS FUEL

VITRINITE REFLECTANCE WORKSHEET

WELL NAME PNE LODGE-1

SAMPLE NO. V3021

DEPTH 2030 M

TYPE SWC

FGV = First Generation Vitrinite I = Inertinite

Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type
.10				.46				.82				1.18				1.54				1.90			
.11				.47	1			.83				1.19				1.55				1.91			
.12				.48				.84				1.20				1.56				1.92			
.13				.49				.85				1.21				1.57				1.93			
.14				.50	1			.86				1.22				1.58				1.94			
.15				.51	2			.87				1.23				1.59				1.95			
.16				.52				.88				1.24				1.60				1.96			
.17				.53	1			.89				1.25				1.61				1.97			
.18				.54	1			.90				1.26				1.62				1.98			
.19				.55				.91				1.27				1.63				1.99			
.20				.56	2			.92				1.28				1.64				2.00			
.21				.57	2		FGV	.93				1.29				1.65				2.01			
.22				.58	3			.94				1.30				1.66				2.02			
.23				.59	3			.95				1.31				1.67				2.03			
.24				.60	5			.96				1.32				1.68				2.04			
.25				.61	2			.97				1.33				1.69				2.05			
.26				.62	2			.98				1.34				1.70				2.06			
.27				.63	1	✓		.99				1.35				1.71				2.07			
.28				.64				1.00				1.36				1.72				2.08			
.29				.65				1.01				1.37				1.73				2.09			
.30				.66				1.02				1.38				1.74				2.10			
.31				.67				1.03				1.39				1.75				2.11			
.32				.68				1.04				1.40				1.76				2.12			
.33				.69				1.05				1.41				1.77				2.13			
.34				.70				1.06				1.42				1.78				2.14			
.35				.71				1.07				1.43				1.79				2.15			
.36				.72				1.08				1.44				1.80							
.37				.73				1.09				1.45				1.81							
.38				.74				1.10				1.46				1.82							
.39				.75				1.11				1.47				1.83							
.40				.76				1.12				1.48				1.84				0.3			
.41				.77				1.13				1.49				1.85							
.42				.78				1.14				1.50				1.86				Vitrinite		Inertinite	
.43				.79				1.15				1.51				1.87							
.44				.80				1.16				1.52				1.88				1.8		1.5	
.45	1	Δ		.81				1.17				1.53				1.89							

VITRINITE REFLECTANCE WORKSHEET

GAS FUEL  
WELL NAME PINE LODGE-1

SAMPLE NO. V3022

DEPTH 2052.5 M

TYPE SWC

FGV = First Generation Vitrinite I = Inertinite

Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type
.10				.46				.82				1.18				1.54				1.90			
.11				.47	1	↑		.83				1.19				1.55				1.91			
.12				.48				.84				1.20				1.56				1.92			
.13				.49				.85				1.21				1.57				1.93			
.14				.50	1			.86				1.22				1.58				1.94			
.15				.51	1			.87				1.23				1.59				1.95			
.16				.52	3			.88				1.24				1.60				1.96			
.17				.53	2			.89				1.25				1.61				1.97			
.18				.54	3			.90				1.26				1.62				1.98			
.19				.55				.91				1.27				1.63				1.99			
.20				.56	3			.92				1.28				1.64				2.00			
.21				.57	2		FGV	.93				1.29				1.65				2.01			
.22				.58	1			.94				1.30				1.66				2.02			
.23				.59	1			.95				1.31				1.67				2.03			
.24				.60	3			.96				1.32				1.68				2.04			
.25				.61				.97				1.33				1.69				2.05			
.26				.62	1			.98				1.34				1.70				2.06			
.27				.63				.99				1.35				1.71				2.07			
.28				.64				1.00				1.36				1.72				2.08			
.29				.65				1.01				1.37				1.73				2.09			
.30				.66	2			1.02				1.38				1.74				2.10			
.31				.67	1			1.03				1.39				1.75				2.11			
.32				.68	1			1.04				1.40				1.76				2.12			
.33				.69	1	↓		1.05				1.41				1.77				2.13			
.34				.70				1.06				1.42				1.78				2.14			
.35				.71				1.07				1.43				1.79				2.15			
.36				.72				1.08				1.44				1.80							
.37				.73				1.09				1.45				1.81							
.38				.74				1.10				1.46				1.82							
.39				.75				1.11				1.47				1.83							
.40				.76				1.12				1.48				1.84				0.1			
.41				.77				1.13				1.49				1.85							
.42				.78				1.14				1.50				1.86				Vitrinite		Inertinite	
.43				.79				1.15				1.51				1.87							
.44				.80				1.16				1.52				1.88				0.6			3.0
.45				.81				1.17				1.53				1.89							

VITRINITE REFLECTANCE WORKSHEET

GAS FUEL  
WELL NAME. PINE LODGE-1.....

SAMPLE NO. V3023.....

DEPTH. 2076.5 M.....

TYPE. SWC.....

FGV = First Generation Vitrinite    I = Inertinite

Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type
.10				.46				.82				1.18				1.54				1.90			
.11				.47				.83				1.19				1.55				1.91			
.12				.48				.84				1.20				1.56				1.92			
.13				.49				.85				1.21				1.57				1.93			
.14				.50				.86				1.22				1.58				1.94			
.15				.51	1	↑		.87				1.23				1.59				1.95			
.16				.52	1			.88				1.24				1.60				1.96			
.17				.53	1			.89				1.25				1.61				1.97			
.18				.54	2			.90				1.26				1.62				1.98			
.19				.55	1			.91				1.27				1.63				1.99			
.20				.56	2			.92				1.28				1.64				2.00			
.21				.57				.93				1.29				1.65				2.01			
.22				.58	3			.94				1.30				1.66				2.02			
.23				.59	1		FGV	.95				1.31				1.67				2.03			
.24				.60	1			.96				1.32				1.68				2.04			
.25				.61	3			.97				1.33				1.69				2.05			
.26				.62	5			.98				1.34				1.70				2.06			
.27				.63	2			.99				1.35				1.71				2.07			
.28				.64				1.00				1.36				1.72				2.08			
.29				.65	1			1.01				1.37				1.73				2.09			
.30				.66	1			1.02				1.38				1.74				2.10			
.31				.67				1.03				1.39				1.75				2.11			
.32				.68	1	↓		1.04				1.40				1.76				2.12			
.33				.69				1.05				1.41				1.77				2.13			
.34				.70				1.06				1.42				1.78				2.14			
.35				.71				1.07				1.43				1.79				2.15			
.36				.72				1.08				1.44				1.80							
.37				.73				1.09				1.45				1.81							
.38				.74				1.10				1.46				1.82							
.39				.75				1.11				1.47				1.83							
.40				.76				1.12				1.48				1.84							
.41				.77				1.13				1.49				1.85							
.42				.78				1.14				1.50				1.86							
.43				.79				1.15				1.51				1.87							
.44				.80				1.16				1.52				1.88							
.45				.81				1.17				1.53				1.89							
																Organic matter Comp. (%)							
																Exinite	Alginite						
																0.3	—						
																Vitrinite	Inertinite						
																0.6	2.2						

VITRINITE REFLECTANCE WORKSHEET

GAS FUEL  
WELL NAME PINE LODGE-1.....

SAMPLE NO. V3024.....

DEPTH..... 2091 M.....

TYPE..... SWC.....

FGV = First Generation Vitrinite    I = Inertinite

Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type
.10				.46				.82				1.18				1.54				1.90			
.11				.47				.83				1.19				1.55				1.91			
.12				.48	1	↑		.84				1.20				1.56				1.92			
.13				.49				.85				1.21				1.57				1.93			
.14				.50				.86				1.22				1.58				1.94			
.15				.51				.87				1.23				1.59				1.95			
.16				.52				.88				1.24				1.60				1.96			
.17				.53				.89				1.25				1.61				1.97			
.18				.54	1			.90				1.26				1.62				1.98			
.19				.55				.91				1.27				1.63				1.99			
.20				.56	2			.92				1.28				1.64				2.00			
.21				.57				.93				1.29				1.65				2.01			
.22				.58	3			.94				1.30				1.66				2.02			
.23				.59	2			.95				1.31				1.67				2.03			
.24				.60	1			.96				1.32				1.68				2.04			
.25				.61	1			.97				1.33				1.69				2.05			
.26				.62	1			.98				1.34				1.70				2.06			
.27				.63	1		FGV	.99				1.35				1.71				2.07			
.28				.64	4			1.00				1.36				1.72				2.08			
.29				.65	2			1.01				1.37				1.73				2.09			
.30				.66	2			1.02				1.38				1.74				2.10			
.31				.67	1			1.03				1.39				1.75				2.11			
.32				.68	2			1.04				1.40				1.76				2.12			
.33				.69	3			1.05				1.41				1.77				2.13			
.34				.70				1.06				1.42				1.78				2.14			
.35				.71	1	↓		1.07				1.43				1.79				2.15			
.36				.72				1.08				1.44				1.80							
.37				.73				1.09				1.45				1.81							
.38				.74				1.10				1.46				1.82							
.39				.75				1.11				1.47				1.83				6.2			
.40				.76				1.12				1.48				1.84							
.41				.77				1.13				1.49				1.85							
.42				.78				1.14				1.50				1.86							
.43				.79				1.15				1.51				1.87							
.44				.80				1.16				1.52				1.88				1.0			
.45				.81				1.17				1.53				1.89							
																			Organic matter Comp. (%)				
																			Exinite		Alginite		
																					-		
																			Vitrinite		Inertinite		
																			1.0		1.6		

VITRINITE REFLECTANCE WORKSHEET

WELL NAME GAS FUEL PINE LODGE-1

SAMPLE NO. V3025

DEPTH 2121.5 M

TYPE SWC

FGV = First Generation Vitrinite I = Inertinite

Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type
.10				.46	3			.82				1.18				1.54				1.90			
.11				.47	2		FGV	.83				1.19				1.55				1.91			
.12				.48	1			.84				1.20				1.56				1.92			
.13				.49	4			.85				1.21				1.57				1.93			
.14				.50	5			.86				1.22				1.58				1.94			
.15				.51	2			.87				1.23				1.59				1.95			
.16				.52				.88				1.24				1.60				1.96			
.17				.53	1			.89				1.25				1.61				1.97			
.18				.54				.90				1.26				1.62				1.98			
.19				.55				.91				1.27				1.63				1.99			
.20				.56				.92				1.28				1.64				2.00			
.21				.57				.93				1.29				1.65				2.01			
.22				.58				.94				1.30				1.66				2.02			
.23				.59				.95				1.31				1.67				2.03			
.24				.60	1	↓		.96				1.32				1.68				2.04			
.25				.61				.97				1.33				1.69				2.05			
.26				.62				.98				1.34				1.70				2.06			
.27				.63				.99				1.35				1.71				2.07			
.28				.64				1.00				1.36				1.72				2.08			
.29				.65				1.01				1.37				1.73				2.09			
.30				.66				1.02				1.38				1.74				2.10			
.31				.67				1.03				1.39				1.75				2.11			
.32				.68				1.04				1.40				1.76				2.12			
.33				.69				1.05				1.41				1.77				2.13			
.34				.70				1.06				1.42				1.78				2.14			
.35				.71				1.07				1.43				1.79				2.15			
.36				.72				1.08				1.44				1.80							
.37				.73				1.09				1.45				1.81							Organic matter Comp.(%)
.38	2	↑		.74				1.10				1.46				1.82							Exinite
.39	2	↑		.75				1.11				1.47				1.83							Alginite
.40				.76				1.12				1.48				1.84							60. -
.41	1	↑		.77				1.13				1.49				1.85							
.42	1	↑		.78				1.14				1.50				1.86							Vitrinite
.43				.79				1.15				1.51				1.87							Inertinite
.44	2	↑		.80				1.16				1.52				1.88							31 9
.45				.81				1.17				1.53				1.89							

VITRINITE REFLECTANCE WORKSHEET

WELL NAME GAS FUEL PINE LODGE-1

SAMPLE NO. V3026

DEPTH 2135 M

TYPE SWC

FGV = First Generation Vitrinite I = Inertinite

Ro %	No. Read	Pop Range	Pop Type	Ro %	No. Read	Pop Range	Pop Type	Ro %	No. Read	Pop Range	Pop Type	Ro %	No. Read	Pop Range	Pop Type	Ro %	No. Read	Pop Range	Pop Type	Ro %	No. Read	Pop Range	Pop Type
.10				.46				.82				1.18				1.54				1.90			
.11				.47				.83				1.19				1.55				1.91			
.12				.48				.84				1.20				1.56				1.92			
.13				.49	1	↑		.85				1.21				1.57				1.93			
.14				.50	2			.86				1.22				1.58				1.94			
.15				.51	2			.87				1.23				1.59				1.95			
.16				.52	2			.88				1.24				1.60				1.96			
.17				.53	1			.89				1.25				1.61				1.97			
.18				.54	2			.90				1.26				1.62				1.98			
.19				.55				.91				1.27				1.63				1.99			
.20				.56	1			.92				1.28				1.64				2.00			
.21				.57	3			.93				1.29				1.65				2.01			
.22				.58		FGV		.94				1.30				1.66				2.02			
.23				.59	2			.95				1.31				1.67				2.03			
.24				.60	1			.96				1.32				1.68				2.04			
.25				.61	1			.97				1.33				1.69				2.05			
.26				.62	1			.98				1.34				1.70				2.06			
.27				.63	3			.99				1.35				1.71				2.07			
.28				.64	2			1.00				1.36				1.72				2.08			
.29				.65				1.01				1.37				1.73				2.09			
.30				.66	2			1.02				1.38				1.74				2.10			
.31				.67				1.03				1.39				1.75				2.11			
.32				.68	1	↓		1.04				1.40				1.76				2.12			
.33				.69				1.05				1.41				1.77				2.13			
.34				.70				1.06				1.42				1.78				2.14			
.35				.71				1.07				1.43				1.79				2.15			
.36				.72				1.08				1.44				1.80							
.37				.73				1.09				1.45				1.81							Organic matter Comp. (%)
.38				.74				1.10				1.46				1.82							Exinite
.39				.75				1.11				1.47				1.83							Alginite
.40				.76				1.12				1.48				1.84							0.4
.41				.77				1.13				1.49				1.85							
.42				.78				1.14				1.50				1.86							Vitrinite
.43				.79				1.15				1.51				1.87							Inertinite
.44				.80				1.16				1.52				1.88							1.8
.45				.81				1.17				1.53				1.89							0.6