

APPENDIX I (b): HYDROCARBON SHOW REPORTS

OIL SHOW EVALUATION REPORT

GEOLOGIST:	<u>D. Adderley</u>
DATE:	<u>20/02/2014</u>
GAS PK/RATIO:	1 U 77/15/6/2 %

C1 ppm	5k	10k	20k	30k	40k	50k	100k	150k	200k	>250k
C2+ ppm	500	750	1k	2k	3k	4k	5k	7.5k	10k	>15k
Porosity Ø	Tight			Poor		Fair		Good		Good++
% with Fluorescence	Trace	10	20	30	40	50	60	70	80	>90
Fluorescence Appearance	Trace		Spotted			Streaked		Patchy		Solid
Brightness of Fluorescence	Very Dull		Dull		Dim			Bright		Glowing
Type of Cut	Trace	Very Slow Crush	Crush	Instant Crush	Very Slow Streaming	Slow Streaming	Moderate Streaming	Streaming	Fast Streaming	Instant
Residue on Spot Plate	Trace	Heavy Trace	Very Thin Ring	Thin Ring	Thick Ring	Very Thick Ring	Thin Film	Thin Film+	Thick Film	Solid
Show Rating	Trace		Poor		Fair		Good			Good+++
Comments:	SANDSTONE: very fine to fine, hard to very hard, tight visual porosity. FLUORESCENCE: trace dull to moderately bright green white pinpoint fluorescence, trace diffuse crush cut, thin ring residue.									

OIL SHOW EVALUATION REPORT

GEOLOGIST:	<u>D. Adderley</u>
DATE:	<u>21/02/2014</u>
GAS PK/RATIO:	9 U 72/16/5/4/3 %

C1 ppm	5k	10k	20k	30k	40k	50k	100k	150k	200k	>250k
C2+ ppm	500	750	1k	2k	3k	4k	5k	7.5k	10k	>15k
Porosity Ø	Tight			Poor		Fair		Good		Good++
% with Fluorescence	Trace	10	20	30	40	50	60	70	80	>90
Fluorescence Appearance	Trace		Spotted			Streaked		Patchy		Solid
Brightness of Fluorescence	Very Dull		Dull		Dim			Bright		Glowing
Type of Cut	Trace	Very Slow Crush	Crush	Instant Crush	Very Slow Streaming	Slow Streaming	Moderate Streaming	Streaming	Fast Streaming	Instant
Residue on Spot Plate	Trace	Heavy Trace	Very Thin Ring	Thin Ring	Thick Ring	Very Thick Ring	Thin Film	Thin Film+	Thick Film	Solid
Show Rating	Trace		Poor		Fair		Good			Good+++
Comments:	SANDSTONE: very fine, hard to very hard, very poor to tight visual porosity. FLUORESCENCE: trace dull green yellow pinpoint fluorescence, trace diff crush cut, thin ring residue.									

OIL SHOW EVALUATION REPORT

GEOLOGIST:	<u>L. Maxwell</u>
DATE:	<u>11/03/2014</u>
GAS PK/RATIO:	220 U 66/17/9/5/3 %

C1 ppm	5k	10k	20k	30k	40k	50k	100k	150k	200k	>250k
C2+ ppm	500	750	1k	2k	3k	4k	5k	7.5k	10k	>15k
Porosity Ø	Tight			Poor		Fair		Good		Good++
% with Fluorescence	Trace	10	20	30	40	50	60	70	80	>90
Fluorescence Appearance	Trace		Spotted			Streaked		Patchy		Solid
Brightness of Fluorescence	Very Dull		Dull		Dim			Bright		Glowing
Type of Cut	Trace	Very Slow Crush	Crush	Instant Crush	Very Slow Streaming	Slow Streaming	Moderate Streaming	Streaming	Fast Streaming	Instant
Residue on Spot Plate	Trace	Heavy Trace	Very Thin Ring	Thin Ring	Thick Ring	Very Thick Ring	Thin Film	Thin Film+	Thick Film	Solid
Show Rating	Trace		Poor		Fair		Good			Good+++
Comments:	SANDSTONE: off-white, milky, translucent, very fine to fine, moderately well sorted, rounded to sub-angular, strong siliceous cement, rare argillaceous matrix, occasional lithics, rare pyrite, hard to very hard, rare loose, nil to tight visual porosity, poor inferred porosity. FLUORESCENCE: Trace dull light green pinpoint fluorescence. Trace crush cut, trace ring residue.									

OIL SHOW EVALUATION REPORT

GEOLOGIST:	<u>L. Maxwell</u>
DATE:	<u>11/03/2014</u>
GAS PK/RATIO:	74 U 57/20/12/7/4 %

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OIL SHOW EVALUATION REPORT

GEOLOGIST:	<u>L. Maxwell</u>
DATE:	<u>11/03/2014</u>
GAS PK/RATIO:	93 U 74/14/6/3/2 %

C1 ppm	5k	10k	20k	30k	40k	50k	100k	150k	200k	>250k
C2+ ppm	500	750	1k	2k	3k	4k	5k	7.5k	10k	>15k
Porosity Ø	Tight			Poor		Fair		Good		Good++
% with Fluorescence	Trace	10	20	30	40	50	60	70	80	>90
Fluorescence Appearance	Trace		Spotted			Streaked		Patchy		Solid
Brightness of Fluorescence	Very Dull		Dull		Dim			Bright		Glowing
Type of Cut	Trace	Very Slow Crush	Crush	Instant Crush	Very Slow Streaming	Slow Streaming	Moderate Streaming	Streaming	Fast Streaming	Instant
Residue on Spot Plate	Trace	Heavy Trace	Very Thin Ring	Thin Ring	Thick Ring	Very Thick Ring	Thin Film	Thin Film+	Thick Film	Solid
Show Rating	Trace		Poor		Fair		Good			Good+++
Comments:	SANDSTONE: light grey to very light brown, off-white, translucent in parts, very fine grading to arenaceous SILTSTONE, occasional fine, well sorted, sub-angular to angular, strong siliceous cement, occasional off-white argillaceous matrix, trace carbonaceous specks and lithics, friable to hard aggregates, rare loose, tight to very poor visual porosity, very poor inferred porosity. FLUORESCENCE: Trace, dull, light green fluorescence. Pinpoint, trace diffuse crush cut, trace ring residue.									

OIL SHOW EVALUATION REPORT

GEOLOGIST:	<u>L. Maxwell</u>
DATE:	<u>11/03/2014</u>
GAS PK/RATIO:	150 U 53/24/13/6/4 %

C1 ppm	5k	10k	20k	30k	40k	50k	100k	150k	200k	>250k
C2+ ppm	500	750	1k	2k	3k	4k	5k	7.5k	10k	>15k
Porosity Ø	Tight			Poor		Fair		Good		Good++
% with Fluorescence	Trace	10	20	30	40	50	60	70	80	>90
Fluorescence Appearance	Trace		Spotted			Streaked		Patchy		Solid
Brightness of Fluorescence	Very Dull		Dull		Dim			Bright		Glowing
Type of Cut	Trace	Very Slow Crush	Crush	Instant Crush	Very Slow Streaming	Slow Streaming	Moderate Streaming	Streaming	Fast Streaming	Instant
Residue on Spot Plate	Trace	Heavy Trace	Very Thin Ring	Thin Ring	Thick Ring	Very Thick Ring	Thin Film	Thin Film+	Thick Film	Solid
Show Rating	Trace		Poor		Fair		Good			Good+++
Comments:	SANDSTONE: off-white to white, light grey, occasional clear to translucent, very fine to fine, moderately sorted, angular to sub-rounded, strong siliceous cement, rare localized off-white argillaceous matrix, rare siliceous overgrowths, moderately hard to hard, rare loose, tight visual porosity, tight to very poor inferred porosity. FLUORESCENCE: Trace dull to moderately bright, light green/white fluorescence. Spotted, nil crush cut, nil residue.									

OIL SHOW EVALUATION REPORT

GEOLOGIST:	<u>L. Maxwell</u>
DATE:	<u>11/03/2014</u>
GAS PK/RATIO:	160 U 69/15/8/5/3 %

C1 ppm	5k	10k	20k	30k	40k	50k	100k	150k	200k	>250k
C2+ ppm	500	750	1k	2k	3k	4k	5k	7.5k	10k	>15k
Porosity Ø	Tight			Poor		Fair		Good		Good++
% with Fluorescence	Trace	5	20	30	40	50	60	70	80	>90
Fluorescence Appearance	Trace		Spotted			Streaked		Patchy		Solid
Brightness of Fluorescence	Very Dull		Dull		Dim			Bright		Glowing
Type of Cut	Trace	Very Slow Crush	Crush	Instant Crush	Very Slow Streaming	Slow Streaming	Moderate Streaming	Streaming	Fast Streaming	Instant
Residue on Spot Plate	Trace	Heavy Trace	Very Thin Ring	Thin Ring	Thick Ring	Very Thick Ring	Thin Film	Thin Film+	Thick Film	Solid
Show Rating	Trace		Poor		Fair		Good			Good+++
Comments:	SANDSTONE: clear to translucent, frosted, opaque white in parts, fine to medium, moderately sorted, angular to sub-angular, occasional sub-rounded, strong siliceous cement, rare off-white argillaceous matrix, loose, rare hard aggregates, tight visual porosity, poor inferred porosity. FLUORESCENCE: 5% - Trace, very dull to dim light green-white fluorescence. Patchy, very slow diffuse crush cut, thin ring residue.									

OIL SHOW EVALUATION REPORT

GEOLOGIST:	L. Maxwell
DATE:	11/03/2014
GAS PK/RATIO:	107 U 41/21/16/13/9 %

C1 ppm	5k	10k	20k	30k	40k	50k	100k	150k	200k	>250k
C2+ ppm	500	750	1k	2k	3k	4k	5k	7.5k	10k	>15k
Porosity Ø	Tight			Poor		Fair		Good		Good++
% with Fluorescence	Trace	10	20	30	40	50	60	70	80	>90
Fluorescence Appearance	Trace		Spotted			Streaked		Patchy		Solid
Brightness of Fluorescence	Very Dull		Dull		Dim			Bright		Glowing
Type of Cut	Trace	Very Slow Diffuse	Moderate Diffuse	Instant Crush	Very Slow Streaming	Slow Streaming	Moderate Streaming	Streaming	Fast Streaming	Instant
Residue on Spot Plate	Trace	Heavy Trace	Very Thin Ring	Thin Ring	Thick Ring	Very Thick Ring	Thin Film	Thin Film+	Thick Film	Solid
Show Rating	Trace		Poor		Fair		Good			Good+++
Comments:	SANDSTONE: clear to translucent, rare white, fine to medium, moderately sorted, angular to sub-rounded, strong siliceous cement, rare off-white argillaceous matrix, loose, rare moderately hard aggregates, tight to very poor visual porosity, very poor inferred porosity. FLUORESCENCE: Trace – 10%, very dull to dull light green fluorescence. Spotted to patchy, very slow to moderate diffuse crush cut, thin ring residue.									

OIL SHOW EVALUATION REPORT

GEOLOGIST:	L. Maxwell
DATE:	11/03/2014
GAS PK/RATIO:	2517 U 40/22/18/12/8 %

C1 ppm	5k	10k	20k	30k	40k	50k	100k	150k	200k	>250k
C2+ ppm	500	750	1k	2k	3k	4k	5k	7.5k	10k	>15k
Porosity Ø	Tight			Poor		Fair		Good		Good++
% with Fluorescence	Trace	10	20	30	40	50	60	70	80	>90
Fluorescence Appearance	Trace		Spotted			Streaked		Patchy		Solid
Brightness of Fluorescence	Very Dull		Dull		Dim			Bright		Glowing
Type of Cut	Trace	Very Slow Diffuse	Moderate Diffuse	Instant Diffuse	Very Slow Blooming	Slow Streaming	Moderate Streaming	Streaming	Fast Streaming	Instant
Residue on Spot Plate	Trace	Heavy Trace	Very Thin Ring	Thin Ring	Thick Ring	Very Thick Ring	Thin Film	Thin Film+	Thick Film	Solid
Show Rating	Trace		Poor		Fair		Good			Good+++
Comments:	SANDSTONE: clear to translucent, rare off-white to white, translucent light pink in parts, fine to medium, moderately poorly sorted, sub-angular to sub-rounded, strong siliceous cement, rare off-white argillaceous matrix, generally loose, common hard aggregates, tight to very poor visual porosity, very poor to poor inferred porosity. FLUORESCENCE: 60% - 80%, dull to moderately bright light green fluorescence. Patchy, streaked in parts, instant diffuse crush cut to slow blooming cut, thin film residue.									

OIL SHOW EVALUATION REPORT

GEOLOGIST:	L. Maxwell
DATE:	11/03/2014
GAS PK/RATIO:	160 U 34/20/18/15/13 %

C1 ppm	5k	10k	20k	30k	40k	50k	100k	150k	200k	>250k
C2+ ppm	500	750	1k	2k	3k	4k	5k	7.5k	10k	>15k
Porosity Ø	Tight			Poor		Fair		Good		Good++
% with Fluorescence	Trace	10	20	30	40	50	60	70	80	>90
Fluorescence Appearance	Trace		Spotted			Streaked		Patchy		Solid
Brightness of Fluorescence	Very Dull		Dull		Dim			Bright		Glowing
Type of Cut	Trace	Very Slow Diffuse	Slow Diffuse	Instant Diffuse	Very Slow Blooming	Slow Streaming	Moderate Streaming	Streaming	Fast Streaming	Instant
Residue on Spot Plate	Trace	Heavy Trace	Very Thin Ring	Thin Ring	Thick Ring	Very Thick Ring	Thin Film	Thin Film+	Thick Film	Solid
Show Rating	Trace		Poor		Fair		Good			Good+++
Comments:	SANDSTONE: clear to translucent, rare off-white to white, translucent light pink in parts, fine to medium, moderately poorly sorted, sub-angular to sub-rounded, strong siliceous cement, nil visible matrix, generally loose, common hard aggregates, tight to very poor visual porosity, very poor to poor inferred porosity. FLUORESCENCE: 10%, dull to dim light green fluorescence, patchy, streaked, slow diffuse cut, thin ring residue.									

OIL SHOW EVALUATION REPORT

GEOLOGIST:	L. Maxwell
DATE:	11/03/2014
GAS PK/RATIO:	260 U 40/21/18/13/8 %

C1 ppm	5k	10k	20k	30k	40k	50k	100k	150k	200k	>250k
C2+ ppm	500	750	1k	2k	3k	4k	5k	7.5k	10k	>15k
Porosity Ø	Tight			Poor		Fair		Good		Good++
% with Fluorescence	Trace	10	20	30	40	50	60	70	80	>90
Fluorescence Appearance	Trace		Spotted			Streaked		Patchy		Solid
Brightness of Fluorescence	Very Dull		Dull		Dim			Bright		Glowing
Type of Cut	Trace	Trace Diffuse	Slow Diffuse	Instant Diffuse	Very Slow Blooming	Slow Streaming	Moderate Streaming	Streaming	Fast Streaming	Instant
Residue on Spot Plate	Trace	Heavy Trace	Very Thin Ring	Thin Ring	Thick Ring	Very Thick Ring	Thin Film	Thin Film+	Thick Film	Solid
Show Rating	Trace		Poor		Fair		Good			Good+++
Comments:	SANDSTONE: clear to translucent, light pink, common white to off-white, very fine to fine in general, common medium, moderately sorted, angular to sub-rounded, moderate to strong siliceous cement, common off-white argillaceous matrix, dominantly loose, common friable to hard aggregates, tight visual porosity, very poor inferred porosity. FLUORESCENCE: Trace, very dull to dull light green fluorescence, spotted, trace diffuse crush cut, trace ring residue.									

OIL SHOW EVALUATION REPORT

GEOLOGIST:	L. Maxwell
DATE:	11/03/2014
GAS PK/RATIO:	496 U 35/19/17/17/12 %

C1 ppm	5k	10k	20k	30k	40k	50k	100k	150k	200k	>250k
C2+ ppm	500	750	1k	2k	3k	4k	5k	7.5k	10k	>15k
Porosity Ø	Tight			Poor inferred		Fair		Good		Good++
% with Fluorescence	Trace	10	20	30	40	50	60	70	80	>90
Fluorescence Appearance	Trace		Spotted			Streaked		Patchy		Solid
Brightness of Fluorescence	Very Dull		Dull		Dim			Bright		Glowing
Type of Cut	Trace	Very Slow Diffuse	Moderate Diffuse	Instant Diffuse	Very Slow Blooming	Slow Streaming	Moderate Streaming	Streaming	Fast Streaming	Instant
Residue on Spot Plate	Trace	Heavy Trace	Very Thin Ring	Thin Ring	Thick Ring	Very Thick Ring	Thin Film	Thin Film+	Thick Film	Solid
Show Rating	Trace		Poor		Fair		Good			Good+++
Comments:	SANDSTONE: clear to translucent, rare very light pink, rare off-white to white, very fine to fine, occasional medium, moderately sorted, sub-angular to sub-rounded, weak to strong siliceous cement, rare off-white argillaceous matrix, loose, very poor to poor inferred porosity. FLUORESCENCE: Trace – 10%, very dull to dull, pinpoint to spotted, instant diffuse cut, thin ring residue.									