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SPECIAL CORE ANALYSIS FINAL REPORT
of
MOA-2
for
QGC - A BG GROUP BUSINESS
WEATHERFORD LABORATORIES (AUSTRALIA) PTY LTD



**Higher
Standards**





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10th March 2016

QGC – A BG Group Business
Level 25, 275 George St
Brisbane QLD 4000

Attention: Heidi Sutton

FINAL REPORT: AB-74845

Moa-2

CLIENT REFERENCE: Call Off Order 4800049093

MATERIAL: Core Plugs

WORK REQUIRED: Special Core Analysis

Please direct technical inquiries regarding this work to the signatory below under whose supervision the work was conducted.

KEVIN H FLYNN
General Manager
SCAL Technical Director

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INTRODUCTION

This final report presents the results of a special core analysis study performed on plug samples from the Moa-2 well. Core plugs utilised were drilled during the routine core analysis study. All core plugs were 1½" diameter.

Following discussions between QGC and Weatherford Laboratories representatives, the test program was refined to that presented in summary format in Chapter 2 of this report. All subsequent chapters encompass descriptions of procedures and test results. The Appendices includes ancillary information pertinent to the study. All petrology analysis has been reported in a separate report.

SUMMARY OF TEST PROGRAM

TEST SCHEDULE

Client: QGC - A BG Group Business
 Well/Project: Moa-2
 File No: AB-74845

F = failed
 C = cancelled

Sample	Depth	Test Sequence												
		Sample Saturation	NMR T2 measurement on fully saturated plug	Porosity, Brine Perm & Formation Resistivity Factor @ 400psi	Porosity, Brine Perm & Formation Resistivity Factor @ OB (1500psi)	Porosity, Brine Perm & Formation Resistivity Factor @ OB (2500psi)	Porosity, Brine Perm & Formation Resistivity Factor @ OB (4000psi)	Set 1				Set 2		MICP
								Air-Brine Capillary Pressure porous plate at a single capillary pressure of 1000psi Pc @ OB	Resistivity Index at overburden pressure (per liquid saturation)	NMR T2 distribution on desaturated sample	Effective air permeability (Kgas @ Swir)	Gas/Brine Capillary Pressure porous plate 6 point up to 1000psi Pc @	Resistivity Index in conjunction with full curve Pc	
R3	3851.45	X	X	X	X	X	X	X	X	X	X			X
S2	3851.49	X	X	X	X	X	X					X	X	X
R8	3854.47	X	X	X	X	X	X	X	X	X	X			X
S4	3854.51	X	X	X	X	X	X	X	X	X	X			X
R20	3864.45	F												X
S8	3864.50	F												X
R22	3865.40	X	X	X	X	X	X	X	X	X	X			X
S9	3865.52	X	X	X	X	X	X	X	X	X	X			X
R36	3875.60	F												X
S14	3875.65	X	X	X	X	X	X	X	X	X	X			X
R44	3883.31	X	X	C										X
S17	3883.36	X	X	C										X
R46	3884.46	X	X	X	X	X	X					X	X	X
S18	3884.52	X	X	X	X	X	X	X	X	X	X			X
R48	3885.45	X	X	X	X	X	X	X	X	X	X			X
S19	3885.50	X	X	X	X	X	X					X	X	X
R61	3896.50	X	X	C										X
S23	3896.55	X	X	X	X	X	X	X	X	X	X			X
S24	3897.65	X	X	X	X	X	X	X	X	X	X			X
R63	3897.70	X	X	X	X	X	X					X	X	X
	Total	17	17	14	14	14	14	10	10	10	10	4	4	20

SAMPLE PREPARATION AND BASE PARAMETER DETERMINATION

Cleaning and Drying

All samples selected were cleaned in a modified soxhlet system (Appendix II) using a chloroform:methanol azeotropic solvent mixture. Cleaning continued until tests for salt (silver nitrate precipitation) showed negative for every test. The clean samples were dried to constant weight in an oven at 60°C and 40% relative humidity. Once dry, the samples were cooled to room temperature in an airtight chamber.

Porosity

Porosity was determined in two stages. Initially, each sample was placed in a sealed matrix cup. Helium held at 100 psi reference pressure was then introduced to the cup. From the resultant pressure drop the unknown grain volume was determined from Boyle's Law.

$$\begin{aligned} P_1 V_1 &= P_2 V_2 \\ \Rightarrow P_1 V_r &= P_2 (V_r + V_c + V_l - V_g) \end{aligned}$$

where

$$\begin{aligned} P_1 &= \text{initial pressure (psig)} \\ V_r &= \text{reference cell volume (cm}^3\text{)} \\ V_c &= \text{matrix cup volume (cm}^3\text{)} \\ V_l &= \text{line volume (cm}^3\text{)} \\ V_g &= \text{grain volume (cm}^3\text{)} \\ P_2 &= \text{final pressure (psig)} \end{aligned}$$

and

$$\rho = \frac{W_t}{V_g}$$

where

$$\begin{aligned} \rho &= \text{grain density (g/cm}^3\text{)} \\ W_t &= \text{weight of sample (g)} \\ V_g &= \text{grain volume (cm}^3\text{)} \end{aligned}$$

Samples were then placed into individual thick walled rubber sleeves and the assembly loaded into a hydrostatic cell. With an ambient pressure (400 psi) applied to the sample, helium held at 100 psi reference pressure was released into the samples pore volume. The resultant pressure drop was used to determine pore volume at ambient. As requested helium porosity at overburden pressure was not determined.

$$V_b = V_p + V_g$$

$$\text{Ambient Porosity \%} = \frac{V_p}{V_b} \times 100$$

where

$$V_p = \text{ambient pore volume (cm}^3\text{)}$$

$$V_b = \text{Ambient bulk volume (cm}^3\text{)}$$

$$V_g = \text{grain volume (cm}^3\text{)}$$

Permeability to Air

The selected samples were placed into a Hassler cell (Appendix II) with an ambient confining pressure of 400 psi applied. The confining pressure was used to prevent bypassing of air around the sample when the measurement was made. In order to determine permeability, a known air pressure was applied to the upstream face of each sample, creating a flow of air through the core plug. Air permeability for each core sample was calculated using Darcy's Law through knowledge of the upstream pressure, flow rate, viscosity of air and sample dimensions.

$$K_a = \frac{2000 \cdot BP \cdot \mu \cdot q \cdot L}{(P_1^2 - P_2^2) \cdot A}$$

where

$$K_a = \text{air permeability (milliDarcy's)}$$

$$BP = \text{barometric pressure (atmospheres)}$$

$$\mu = \text{gas viscosity (cP)}$$

$$q = \text{flow rate (cm}^3\text{/s) at barometric pressure}$$

$$L = \text{sample length (cm)}$$

$$P_1 = \text{upstream pressure (atmospheres)}$$

$$P_2 = \text{downstream pressure (atmospheres)}$$

$$A = \text{sample cross sectional area (cm}^2\text{)}$$

As requested air permeability was not determined at overburden pressure.

Sample Saturation

The selected samples were initially vacuum saturated with synthetic formation brine, followed by pressure saturation at 2000 psi for a minimum of 24 hours. To determine complete saturation, the saturations were determined by mass balance and compared with that of porosimetry. In all cases samples were deemed suitable to proceed with the test program.



**QGC – A BG GROUP BUSINESS
MOA-2**

Base Parameter Results

BASE PARAMETERS

Client : QGC - A BG Group business
Well : Moa-2

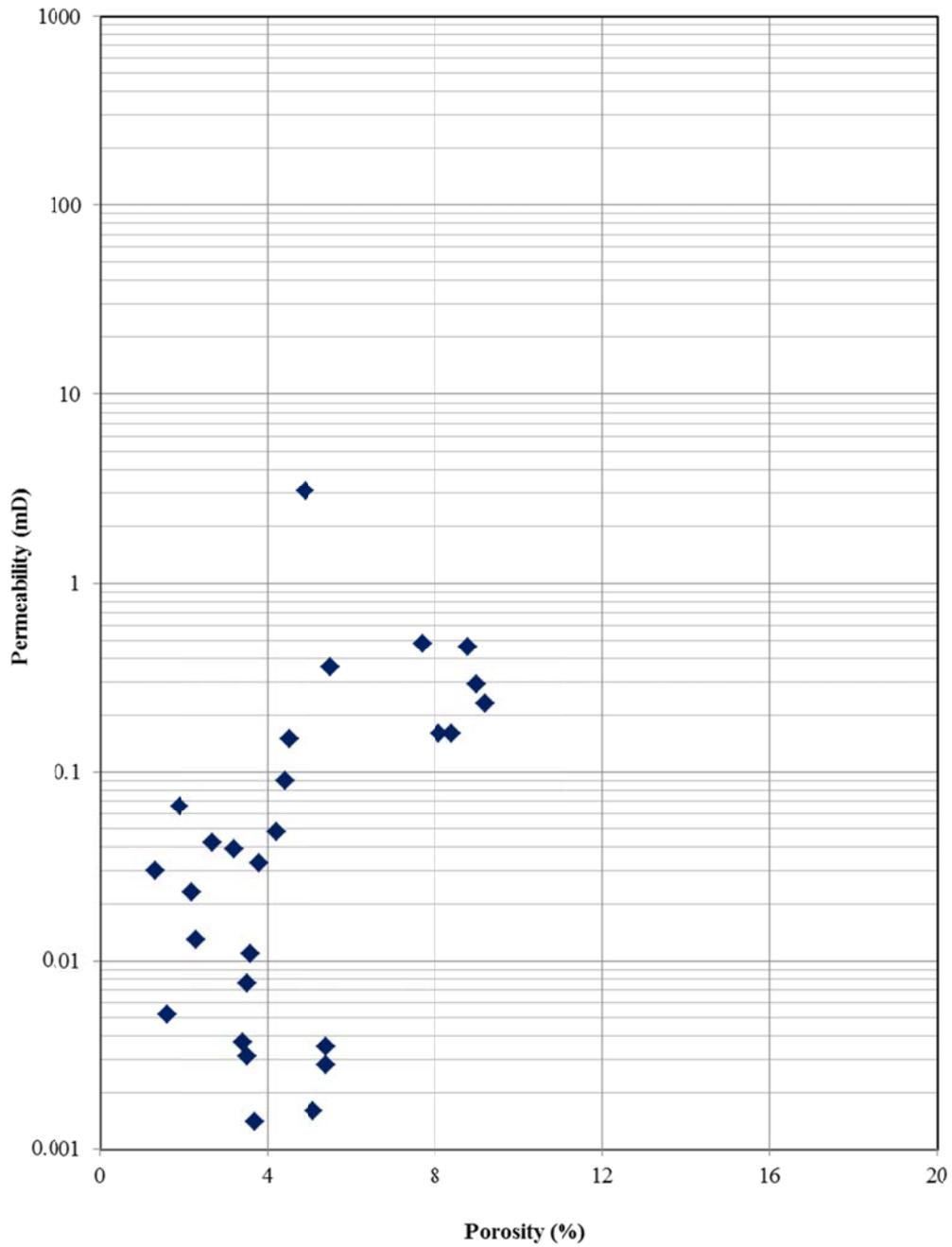
Date : 27/05/2015
File : AB-74845
Cleaning Method : Chloro-Meth
Drying Method : Humidity Dry

Sample Number	Depth (m)	Dir	Porosity Helium (percent)	Grain Density (g/cm ³)	Permeability to Air (mD)	Remarks
S1	3850.50	H	5.4	2.70	0.0028	irreg
R3	3851.45	H	5.4	2.71	0.0035	
S2	3851.49	H	5.1	2.72	0.0016	
S3	3852.49	H	4.4	2.67	0.090	S.P
R8	3854.47	H	3.5	2.71	0.0076	
S4	3854.51	H	3.8	2.69	0.033	
S5	3857.64	H	1.9	2.69	0.066	
S6	3860.54	H	1.0	2.62		frac
S7	3862.50	H	1.3	2.67	0.030	irreg, frac?
R20	3864.45	H	3.2	2.68	0.039	lam
S8	3864.50	H	3.6	2.69	0.011	
R22	3865.40	H	7.7	2.69	0.48	
S9	3865.52	H	8.8	2.58	0.46	irreg
S10	3866.50	H	4.9	2.66	3.05	frac?
S11	3868.47	H	3.7	2.72	0.0014	
S12	3871.54	H	2.7	2.69		irreg, frac
S13	3873.40	H				fail
R36	3875.60	H	2.2	2.71	0.023	lam
S14	3875.65	H	1.6	2.72	0.0052	
S15	3878.66	H	1.4	2.63		frac
S16	3881.38	H	0.5	2.70		frac
R44	3883.31	H	4.2	2.68	0.048	Re-Trimmed
S17	3883.36	H	4.5	2.68	0.15	frac?
R46	3884.46	H	9.0	2.65	0.29	
S18	3884.52	H	9.2	2.65	0.23	irreg
R48	3885.45	H	8.4	2.66	0.16	Re-Trimmed
S19	3885.50	H	8.1	2.67	0.16	
S20	3886.36	H	5.5	2.66	0.36	irreg
S21	3890.46	H	2.9	2.70		frac
S22	3893.55	H	2.5	2.68		frac
R61	3896.50	H	2.7	2.72	0.042	
S23	3896.55	H	2.3	2.71	0.013	
S24	3897.65	H	3.4	2.71	0.0037	
R63	3897.70	H	3.5	2.70	0.0031	
S25	3898.45	H				fail
S26	3902.21	H	1.4	2.67		frac

POROSITY vs PERMEABILITY
Ambient

Client: QGC - A BG Group Business

Well: Moa-2



ELECTRICAL PROPERTIES AND CAPILLARY PRESSURE

Formation Factor

On completion of base parameter and pressure saturation with synthetic formation brine, the selected samples continued on for formation resistivity factor analyses.

Each fully brine saturated sample was sandwiched between a pair of stainless steel core holder platens. These platens also act as the current carrying and potential electrodes. This assembly was placed into a snugly fitting rubber overburden sleeve and then loaded into a Hydrostatic-type core holder. Selected samples underwent analysis at 400, 1500 and 2500 psi before applying the overburden pressure of 4000 psi. Confining pressures were gradually applied and pore volume reduction determined by the pore volume squeeze out volume (see Appendix II for schematic).

Synthetic brine (Appendix I) was slowly flowed through each sample at a rate of 0.5 cm³/min. During this process, sample resistivity was monitored on a digi-bridge capable of measuring sample resistance to 0.001 (ohms) accuracy. In each case, the current frequency was selected to yield minimum phase angles, thus ensuring maximum electrical contact (between each sample and the current carrying the potential electrodes). Values of sample resistance (Rc) and effluent brine resistivity (Rw) were recorded daily. Each sample was deemed to be at ionic equilibrium when three consecutive daily readings were recorded within 1%.

From these stable data, the following results were recorded:

$$R_o = \frac{A.R_c}{100L}$$

where

$$\begin{aligned} R_o &= \text{sample resistivity (ohm.m)} \\ R_c &= \text{sample resistance (ohms)} \\ L &= \text{electrode gap (sample length - cm)} \\ A &= \text{cross sectional area (cm}^2\text{)} \\ 100 &= \text{units conversion} \end{aligned}$$

Formation resistivity factor was calculated using the following equations:

$$FF = \frac{a}{\Phi^m}$$

and

$$FF = \frac{R_o}{R_w}$$

where

$$\begin{aligned} R_w &= \text{brine resistivity (ohm.m)} \\ a &= \text{intercept (assumed = 1)} \\ m &= \text{cementation exponent} \end{aligned}$$

and

$$\Phi = \text{porosity (fraction)}$$

The brine resistivity (R_w) was accurately determined by a NATA certified fluids laboratory.

During the formation factor experiment the permeability was calculated using Darcy's Law through knowledge of the differential flooding pressure, flow rate, viscosity of brine and the sample dimensions.

$$K_w = \frac{14696.q.L.\mu T}{\Delta P.A}$$

where

14696	=	<i>units conversion</i>
K_w	=	<i>permeability to brine</i>
q	=	<i>flow rate (cm^3/s)</i>
ΔP	=	<i>differential flooding pressure (psig)</i>
L	=	<i>sample length (cm)</i>
A	=	<i>sample cross sectional area (cm^2)</i>
μT	=	<i>brine viscosity (cP) at T ($^{\circ}C$)</i>

On completion of formation factor and brine permeability selected samples were increased to the next scheduled overburden pressure and the procedure repeated until samples had reached a confining pressure of 4000 psi.

Nuclear Magnetic Resonance

NMR analysis was performed using a 2 MHz Magritek NMR spectrometer. The spectrometer operates at a magnet strength of 0.046 Telsa and can accommodate plug samples up to 38mm diameter and 6cm long. As requested no data interpretation has been performed on these samples.

A CPMG sequence (Carr-Purcell-Meiboom-Gill) is used to measure T_2 . It comprises of a 90° magnetic pulse, followed by a train of 180° magnetic pulses. Thus pulse sequence eliminates effects due to local variations in magnetic field. Therefore the signal decay is due to interactions with neighbouring spins and surfaces. The CPMG sequence eliminates dephasing effects due to magnet inhomogeneities and therefore measures the true T_2 of the sample. In a porous rock system, there will be a continuous range of pore sizes, rather than several discrete sizes. This means that the CPMG echo-train comprises of a continuous range of relaxation times. Each pore-size has a distinctive T_2 value. The echo-train corresponding to one particular pore-size will have a characteristic T_2 value and signal amplitude proportional to the amount of fluid contained in pores of that size. For a pore system with a continuous range of pore sizes, each pore size has a corresponding T_2 value and signal amplitude. The resulting echo-train therefore consists of a continuous distribution of T_2 values each with different signal amplitudes. This cannot be deconvoluted by fitting to a continuous distribution of exponential decays, it is mathematically too difficult. The problem is solved by selecting 50 T_2 values over a specified time range evenly spaced in logarithmic time. The echo-train is fitted using these values, calculating the signal amplitude associated with each one. The result is plotted as a T_2 distribution. Resonance Instruments WinDXP software is used to obtain T_2 distributions from the CPMG echo-train data. The WinDXP software uses a procedure called zeroth order regularisation to obtain the distributions. The T_2 distribution obtained from rocks saturated with a single fluid phase wetting the surface of the pores reflects the pore-size distribution of the rocks where pore-size is measured as the ratio between its surface area and volume.

$$\frac{1}{T_2} = \rho_2 \frac{s}{v}$$

<i>Where</i>	T_2	=	T_2 relaxation time
	ρ_2	=	surface relaxation constant
	s	=	pore surface area
	v	=	pore volume

NMR porosity was calculated by comparing the total amplitude of the signal obtained from each sample (by summing the amplitudes in the saturated sample T2 distribution) to that of a known standard. In this case the reference standard was a sealed glass phial containing formation brine. The number of scans used for the reference sample are selected to allow the signal amplitude of the sample and reference to be directly comparable.

NMR measures the fluid within the sample, whereas helium porosity is a measure of accessible pore space. Therefore the measured NMR porosity and helium porosity may be different, in particular for samples containing isolated pores, clays and bitumens or asphaltines.

The selected samples were desaturated by single point porous plate capillary pressure. NMR T2 measurements were then carried out on all desaturated samples. Desaturated sample NMR T2 distributions indicate bound water in micropores.

T2 cut-offs define the transition point from free to bound fluid. T2 cut-offs can be calculated from the point where the end-point brine saturation (S_{wi}) intercepts the saturated state T2 curves such that:

$$S_{w_{irr}} = \sum_{T_2=0.1ms}^{T_2,cutoffs} A(T_2)$$

<i>Where</i>	A	=	signal amplitude in the brine saturated T_2 distribution
	$S_{w_{irr}}$	=	irreducible water saturation after desaturation

This approach to calculating T2 cut-offs assumes that the pore network is similar in structure to a bundle of capillary tubes.

REFERENCES

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KENYON, W.E., DAY, P.I., STRALEY, C., and WILLEMSEN, J.F. (1986) – A Three-Part Study of NMR Longitudinal Relaxation Properties of Water-Saturated Sandstones. SPE Formation Evaluation, September.

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Resistivity Index and Capillary Pressure

Upon completion of the preceding formation factor and NMR analyses the data was reviewed and samples selected for single point and full curve desaturation in conjunction with resistivity index. The top end-face port was connected to a supply of humidified air and the bottom port connected to a graduated receiving tube (Appendix II). The samples were de-saturated by gradually increasing the displacing fluid pressure to the samples. The actual pressures utilised were inversely proportional to the individual sample permeability data. The capillary pressure curve was terminated at 1000 psi. A small amount of oil was placed into the collection tubes to prevent any potential brine loss by evaporation. Sample resistances (Rt) were measured at successive decreasing brine saturations, which were calculated from the following equation:

$$\text{Water Saturation (\%)} = \frac{\text{Pore Volume @ OB (cm}^3\text{)} - \text{Brine Expelled (cm}^3\text{)}}{\text{Pore Volume @ OB (cm}^3\text{)}} \times 100$$

Capillary pressure curves plot water saturation (x-axis) against applied displacing fluid pressure. The ratio of the sample resistance (Rc) values to the previously determined FF values (at 100% saturation) were used to calculate the formation resistivity indices.

$$R_t = \frac{A.R_c}{100.L}$$

where

$$\begin{aligned} R_c &= \text{sample resistance (ohms)} \\ R_t &= \text{resistivity of a partially brine saturated} \\ &\quad \text{sample (ohm.m)} \\ 100 &= \text{units conversion} \end{aligned}$$

and

$$RI = \frac{R_t}{R_w.FF}$$

where

$$\begin{aligned} RI &= \text{resistivity index} \\ R_w &= \text{resistivity of brine (ohm.m)} \\ FF &= \text{formation factor} \end{aligned}$$

(modified from standard Archie equation to include Rw)

These RI values (for each sample) were plotted against brine saturation (Sw) on graphs with logarithmic axes and the gradient of the best-fit line through the co-ordinate (1.0, 1.0) was calculated. Each gradient is quoted as the saturation exponent (n) for that sample in accordance with Archie's formula.

$$RI = \frac{1}{S_w^n}$$

Samples that underwent single point desaturation then proceeded with effective permeability to gas determination and NMR at residual water saturation analysis.



**QGC – A BG GROUP BUSINESS
MOA-2**

Electrical Properties and Capillary Pressure Results

ELECTRICAL PROPERTIES SUMMARY



Client QGC - A BG Group business
Well Moa-2

Rw of Saturant 0.133 at 25°C
Overburden Various

Sample Number	Depth (metres)	Ambient 400 psi			Overburden 1500 psi			Overburden 2500 psi			Overburden 4200 psi		
		Ambient Porosity (percent)	Formation Factor FF	Cementation Exponent m	Formation Porosity (percent)	Factor FF	Cementation Exponent m	Formation Porosity (percent)	Factor FF	Cementation Exponent m	Formation Porosity (percent)	Factor FF	Cementation Exponent m
R3	3851.45	5.4	199	1.81	5.3	224	1.84	5.2	240	1.86	5.2	291	1.91
S2	3851.49	5.1	210	1.80	5.0	240	1.83	4.9	250	1.83	4.8	262	1.84
R8	3854.47	3.5	150	1.50	3.3	167	1.50	3.2	197	1.53	3.1	243	1.59
S4	3854.51	3.8	98.1	1.40	3.7	121	1.45	3.6	131	1.46	3.4	170	1.52
R22	3865.40	7.7	64.9	1.63	7.0	90.7	1.69	6.6	106	1.72	6.2	130	1.75
S9	3865.52	8.8	37.4	1.49	8.3	54.1	1.60	7.8	67.6	1.65	7.5	84.1	1.71
S14	3875.65	1.6	319	1.39	1.5	382	1.41	1.4	434	1.42	1.3	521	1.44
R46	3884.46	9.0	67.3	1.75	8.1	90.6	1.79	7.6	116	1.85	7.2	145	1.89
S18	3884.52	9.2	61.6	1.73	8.4	87.1	1.80	7.9	108	1.84	7.5	139	1.90
R48	3885.45	8.4	49.0	1.57	7.8	79.6	1.71	7.4	100	1.77	7.0	130	1.83
S19	3885.50	8.1	73.1	1.70	7.4	99.2	1.77	7.1	122	1.82	6.7	174	1.91
S23	3896.55	2.3	276	1.49	2.2	309	1.50	2.1	359	1.52	2.0	384	1.53
S24	3897.65	3.4	343	1.72	3.3	388	1.75	3.3	410	1.76	3.2	462	1.78
R63	3897.70	3.5	348	1.74	3.4	363	1.74	3.3	388	1.75	3.2	433	1.77

BRINE PERMEABILITY AND POROSITY SQUEEZOUT

Client : QGC - A BG Group business
Well : Moa-2

Date : 23/12/2015
File : AB-74845

Sample Number	Depth (metres)	400 Porosity (Percent)	1500 Porosity Squeezout (Percent)	2500 Porosity Squeezout (Percent)	4000 Porosity Squeezout (Percent)	Grain Density (g/cm ³)	Ambient Permeability (mD)	400 Liquid Permeability (mD)	1500 Liquid Permeability (mD)	2500 Liquid Permeability (mD)	4000 Liquid Permeability (mD)	Remarks
R3	# 3851.45	5.4	5.3	5.2	5.2	2.66	0.0035	0.00002	0.000007	0.000004	0.000002	
S2	# 3851.49	5.1	5.0	4.9	4.8	2.64	0.0016	<0.00005	0.000010	0.000004	0.000002	
R8	# 3854.47	3.5	3.3	3.2	3.1	2.64	0.0076	0.000092	0.000017	0.000005	0.000002	
S4	# 3854.51	3.8	3.7	3.6	3.4	2.63	0.033	0.0022	0.00015	0.000061	0.000010	
R22	# 3865.40	7.7	7.0	6.6	6.2	2.63	0.48	0.14	0.017	0.0036	0.00058	
S9	# 3875.65	8.8	8.3	7.8	7.5	2.65	0.46	0.12	0.039	0.012	0.0038	
S14	# 3875.65	1.6	1.5	1.4	1.3	2.63	0.0052	0.000062	0.00002	0.000008	0.000003	
R46	# 3884.46	9.0	8.1	7.6	7.2	2.63	0.29	0.059	0.025	0.010	0.0024	
S18	# 3884.52	9.2	8.4	7.9	7.5	2.64	0.23	0.051	0.021	0.0085	0.0026	
R48	# 3885.45	8.4	7.8	7.4	7.0	2.63	0.16	0.058	0.020	0.0067	0.0018	
S19	# 3885.50	8.1	7.4	7.1	6.7	2.64	0.16	0.055	0.020	0.0085	0.0022	
S23	# 3896.55	2.3	2.2	2.1	2.0	2.63	0.013	0.00022	0.000059	0.000016	0.000005	
S24	# 3897.65	3.4	3.3	3.3	3.2	2.64	0.0037	0.00002	0.000003	0.000001	0.000001	
R63	# 3897.70	3.5	3.4	3.3	3.2	2.63	0.0031	0.00006	0.000010	0.000004	0.000002	



**QGC – A BG GROUP BUSINESS
MOA-2**

NMR Test Results



**2MHz - NMR T2
Plugs at 100% Sw**

Client: QGC - A BG Group Business
Well: Moa-2
File: AB-74845 0.1 Te 100% Sw

Sample ID	R3	R8	R22	R44	R46	R48	R61	R63	S2
Core Data									
Sample Type									
Depth (meter)	3851.45	3854.47	3865.40	3883.31	3884.46	3885.45	3896.50	3897.70	3851.49
Caliper Bulk Volume (cc)	56.61	56.56	47.41	54.94	56.44	56.09	56.44	56.69	56.53
Net Confining Stress (Psi)	Ambient								
Sample Temperature	Ambient								
Helium Porosity (%)	5.4	3.5	7.7	4.2	9.0	8.4	2.7	3.5	5.1
NMR Data									
T2 Saturation (mL), 100% Sw	5.00	5.25	5.42	4.73	6.85	5.47	3.76	4.29	5.04
T2 Porosity (%), 100% Sw	8.83	9.28	12.54	8.61	12.14	11.22	6.66	7.57	8.92
T2 Saturation (frac), 100% Sw	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
T2 log mean, 100% Sw	0.99	0.43	1.73	0.81	3.85	3.68	0.38	0.47	1.00
T2 Saturation (mL), Swir	4.99	5.28	4.07			3.41			
T2 Porosity (%), Swir	8.82	9.34	9.40			7.00			
T2 Saturation (frac), Swir	1.00	1.01	0.75			0.62			
T2 log mean, Swir	0.99	0.43	1.73			3.68			



**2MHz - NMR T2
Plugs at 100% Sw**

Client: QGC-A BG Group Business
Well: Moa 2
File: AB-74845 0.1 Te 100% Sw

Sample ID	S4	S9	S14	S17	S18	S19	S23	S24
Core Data								
Sample Type	Conventional							
Depth (meter)	3854.51	3865.52	3875.65	3883.36	3884.52	3885.50	3896.55	3897.65
Caliper Bulk Volume (cc)	56.33	55.92	56.50	56.47	47.24	53.93	56.43	56.4500
Net Confining Stress (Psi)	Ambient							
Sample Temperature	Ambient							
Helium Porosity (%)	3.8	8.8	1.6	4.5	9.2	8.1	2.3	3.4
NMR Data								
T2 Saturation (mL), 100% Sw	6.40	5.78	3.12	5.53	5.36	5.90	3.77	4.08
T2 Porosity (%), 100% Sw	11.37	13.80	5.52	9.79	12.40	10.93	6.68	7.22
T2 Saturation (frac), 100% Sw	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
T2 log mean, 100% Sw	0.46	4.00	0.32	0.86	3.76	3.56	0.44	0.55
T2 Saturation (mL), Swir	5.57	2.89	3.13		3.08		3.78	4.08
T2 Porosity (%), Swir	9.88	6.90	5.55		7.13		6.70	7.23
T2 Saturation (frac), Swir	0.87	0.50	1.00		0.58		1.00	1.00
T2 log mean, Swir	0.46	4.00	0.32		3.76		0.44	0.55

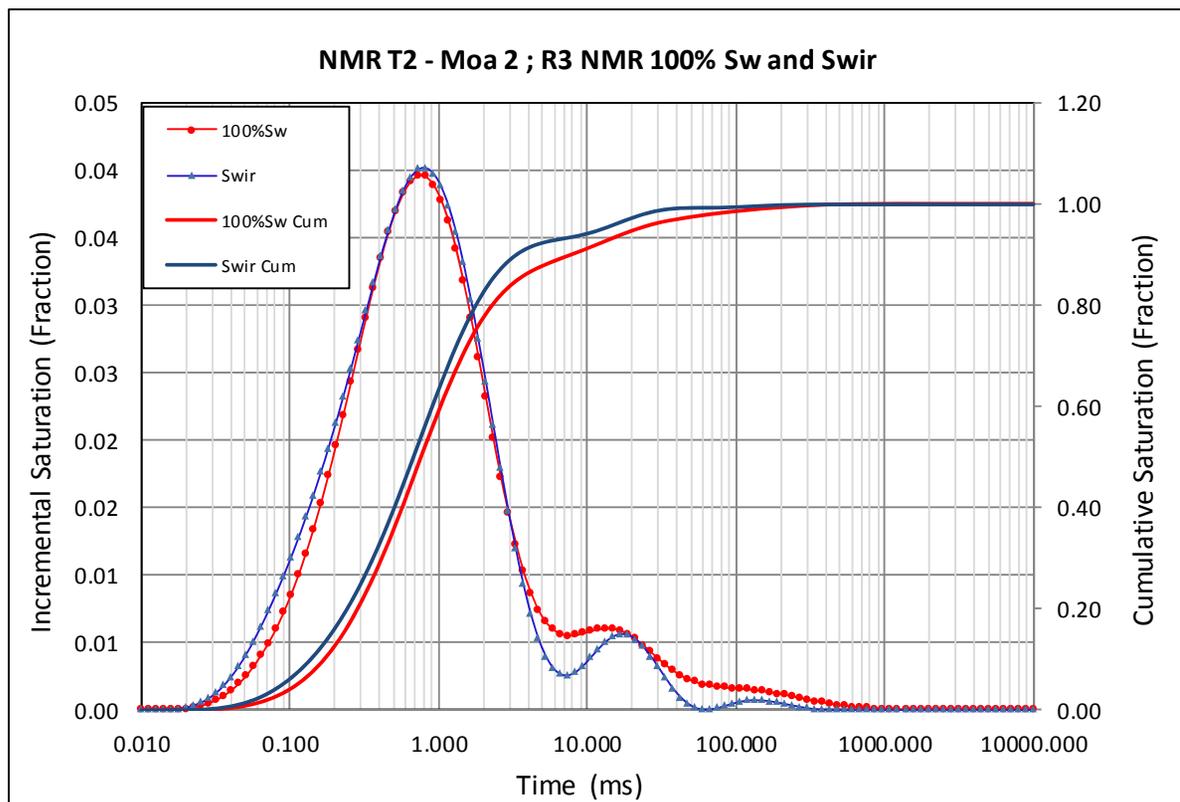
**2MHz - NMR T2
Plugs at 100% Sw and Swir**

Client: QGC - A BG Group Business

Well: Moa-2

File: AB-74845 0.1 Te 100% Sw and Swir

Sample ID	R3
Core Data	
Sample Type	Conventional
Depth, meters	3851.45
Caliper Bulk Volume (cc)	56.61
Net Confining Stress (Psi)	Ambient
Sample Temperature	Ambient
Helium Porosity (%)	5.4
NMR Data	
T2 Saturation (mL), 100% Sw	5.00
T2 Porosity (%), 100% Sw	8.83
T2 Saturation (frac), 100% Sw	1.00
T2 log mean, 100% Sw	0.99
T2 Saturation (mL), Swir	4.99
T2 Porosity (%), Swir	8.82
T2 Saturation (frac), Swir	1.00
T2 log mean, Swir	0.99



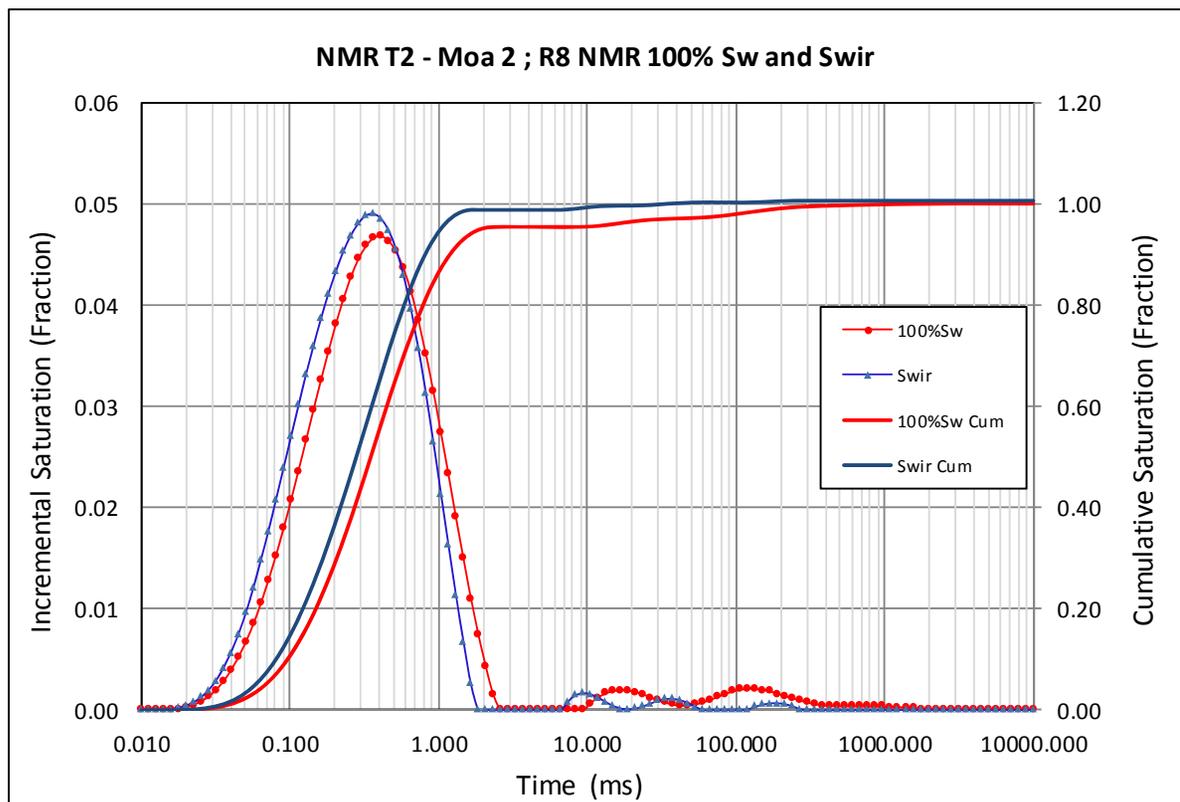
**2MHz - NMR T2
Plugs at 100% Sw and Swir**

Client: QGC - A BG Group Business

Well: Moa-2

File: AB-74845 0.1 Te 100% Sw and Swir

Sample ID	R8
Core Data	
Sample Type	Conventional
Depth, meters	3854.47
Caliper Bulk Volume (cc)	56.56
Net Confining Stress (Psi)	Ambient
Sample Temperature	Ambient
Helium Porosity (%)	3.5
NMR Data	
T2 Saturation (mL), 100% Sw	5.25
T2 Porosity (%), 100% Sw	9.28
T2 Saturation (frac), 100% Sw	1.00
T2 log mean, 100% Sw	0.43
T2 Saturation (mL), Swir	5.28
T2 Porosity (%), Swir	9.34
T2 Saturation (frac), Swir	1.01
T2 log mean, Swir	0.43



**2MHz - NMR T2
Plugs at 100% Sw and Swir**

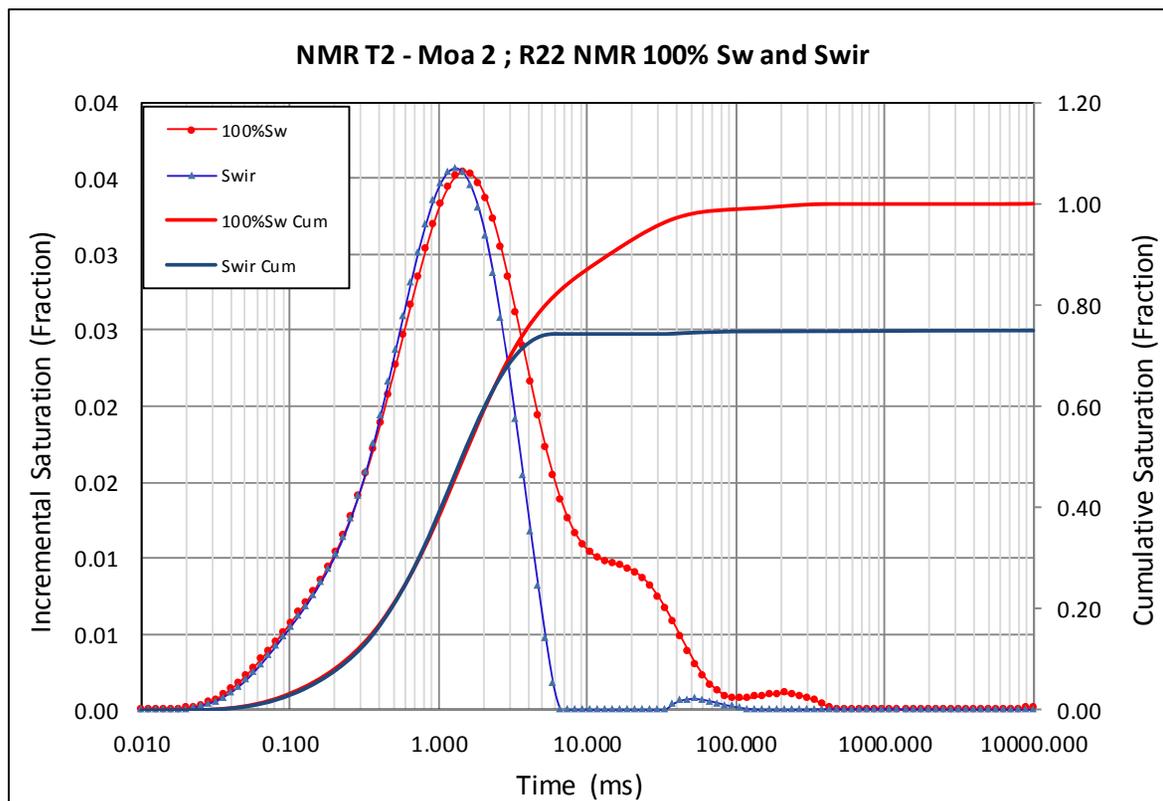
Client: QGC - A BG Group Business

Well: Moa-2

File: AB-74845 0.1 Te 100% Sw and Swir

Sample ID	R22
Core Data	
Sample Type	Conventional
Depth, meters	3865.40
*Caliper Bulk Volume (cc)	43.26
Net Confining Stress (Psi)	Ambient
Sample Temperature	Ambient
Helium Porosity (%)	7.7
NMR Data	
T2 Saturation (mL), 100% Sw	5.42
T2 Porosity (%), 100% Sw	12.54
T2 Saturation (frac), 100% Sw	1.00
T2 log mean, 100% Sw	1.73
T2 Saturation (mL), Swir	4.07
T2 Porosity (%), Swir	9.40
T2 Saturation (frac), Swir	0.75
T2 log mean, Swir	1.73

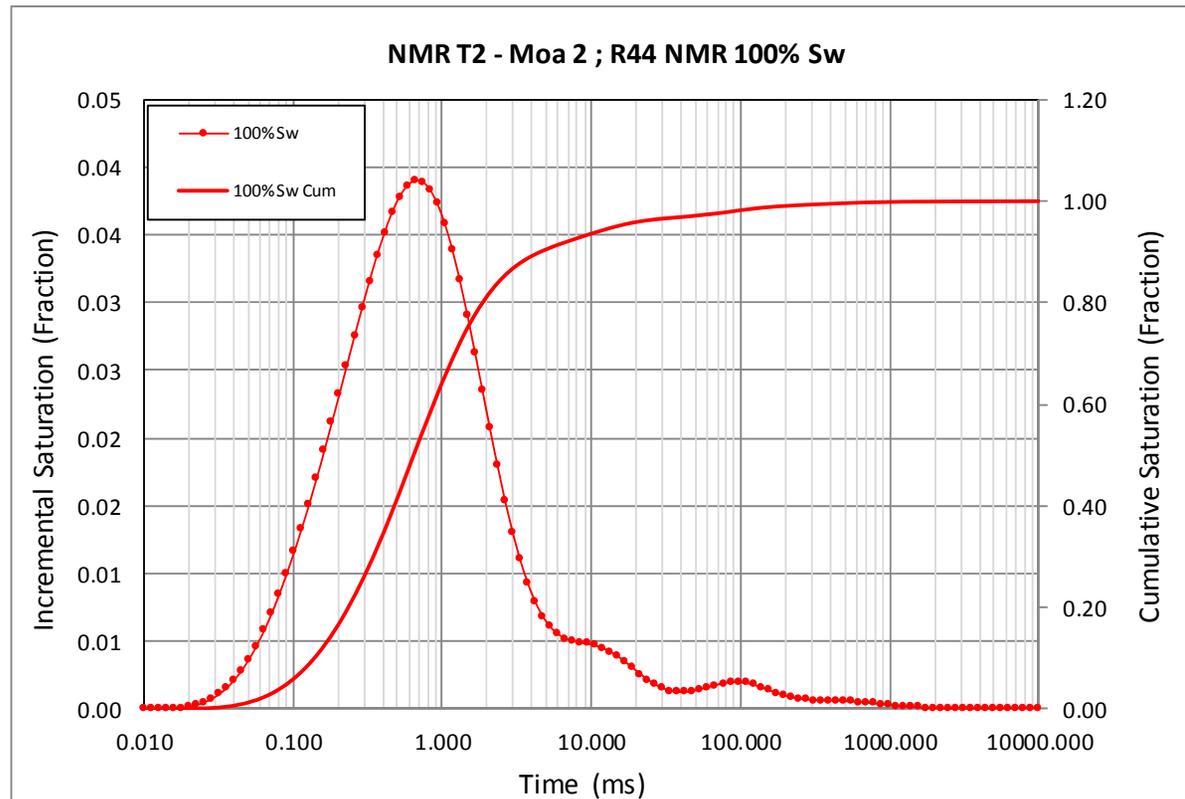
*Trimmed bulk volume



**2MHz - NMR T2
Plugs at 100% Sw**

Client: QGC - A BG Group Business
Well: Moa-2
File: AB-74845 0.1 Te 100% Sw

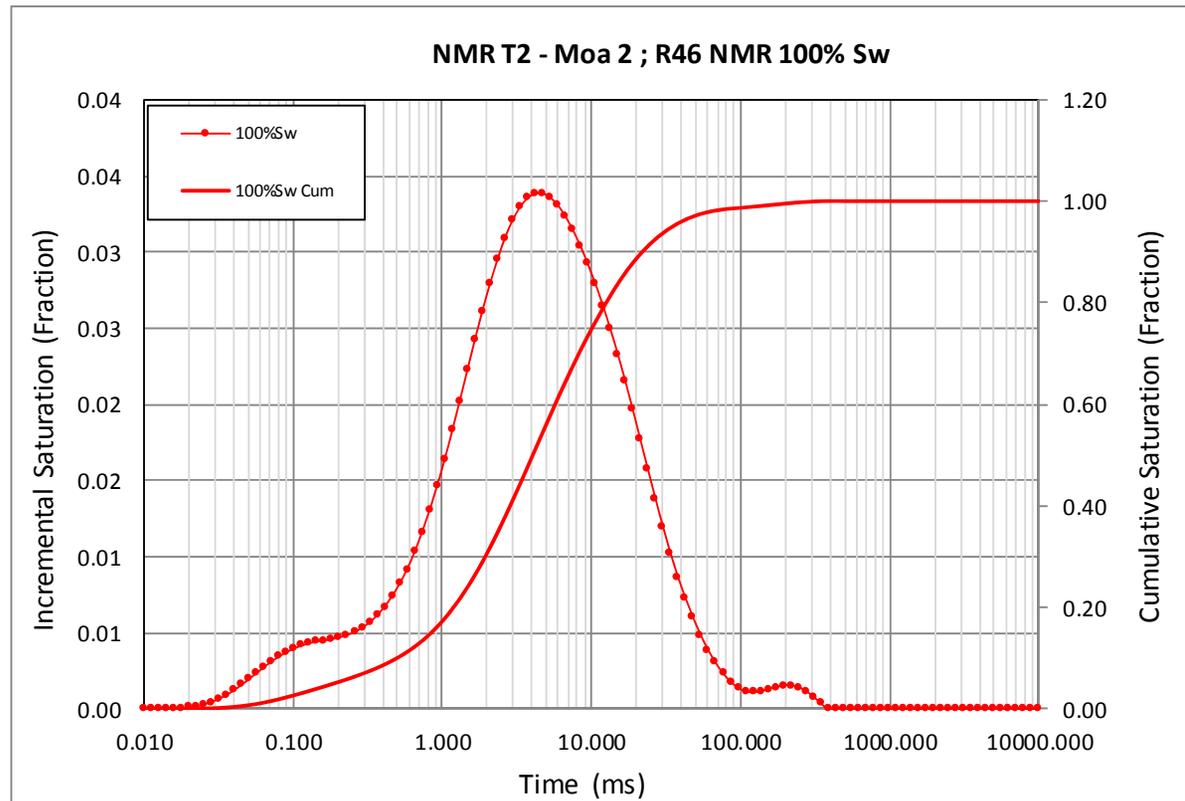
Sample ID	R44
Core Data	
Sample Type	Conventional
Depth (meter)	3883.31
Caliper Bulk Volume (cc)	54.94
Net Confining Stress (Psi)	Ambient
Sample Temperature	Ambient
Helium Porosity (%)	4.20
NMR Data	
T2 Porosity (%), Te = 0.1 ms	8.61
T2 log mean, Te = 0.1 ms	0.81



**2MHz - NMR T2
Plugs at 100% Sw**

Client: QGC - A BG Group Business
Well: Moa-2
File: AB-74845 0.1 Te 100% Sw

Sample ID	R46
Core Data	
Sample Type	Conventional
Depth (meter)	3884.46
Caliper Bulk Volume (cc)	56.44
Net Confining Stress (Psi)	Ambient
Sample Temperature	Ambient
Helium Porosity (%)	9.00
NMR Data	
T2 Porosity (%), Te = 0.1 ms	12.14
T2 log mean, Te = 0.1 ms	3.85



**2MHz - NMR T2
Plugs at 100% Sw and Swir**

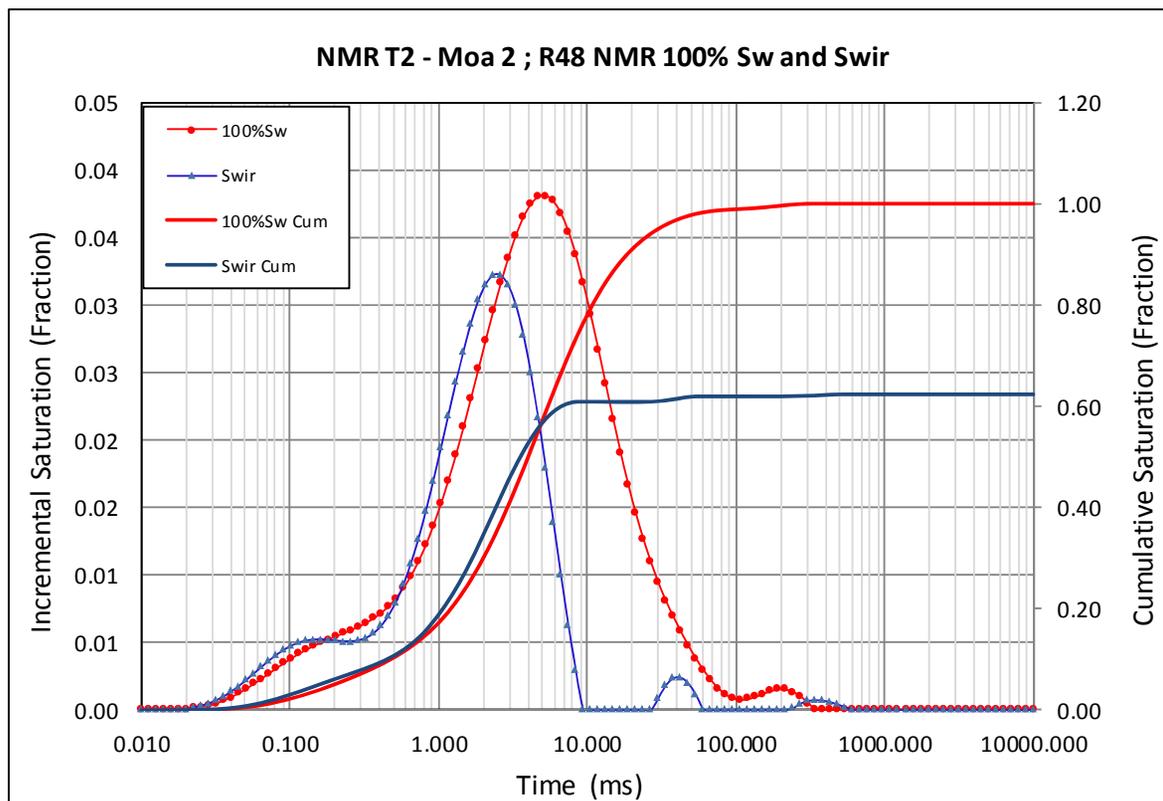
Client: QGC - A BG Group Business

Well: Moa-2

File: AB-74845 0.1 Te 100% Sw and Swir

Sample ID	R48
Core Data	
Sample Type	Conventional
Depth, meters	3885.45
*Caliper Bulk Volume (cc)	48.78
Net Confining Stress (Psi)	Ambient
Sample Temperature	Ambient
Helium Porosity (%)	8.4
NMR Data	
T2 Saturation (mL), 100% Sw	5.47
T2 Porosity (%), 100% Sw	11.22
T2 Saturation (frac), 100% Sw	1.00
T2 log mean, 100% Sw	3.68
T2 Saturation (mL), Swir	3.41
T2 Porosity (%), Swir	7.00
T2 Saturation (frac), Swir	0.62
T2 log mean, Swir	3.68

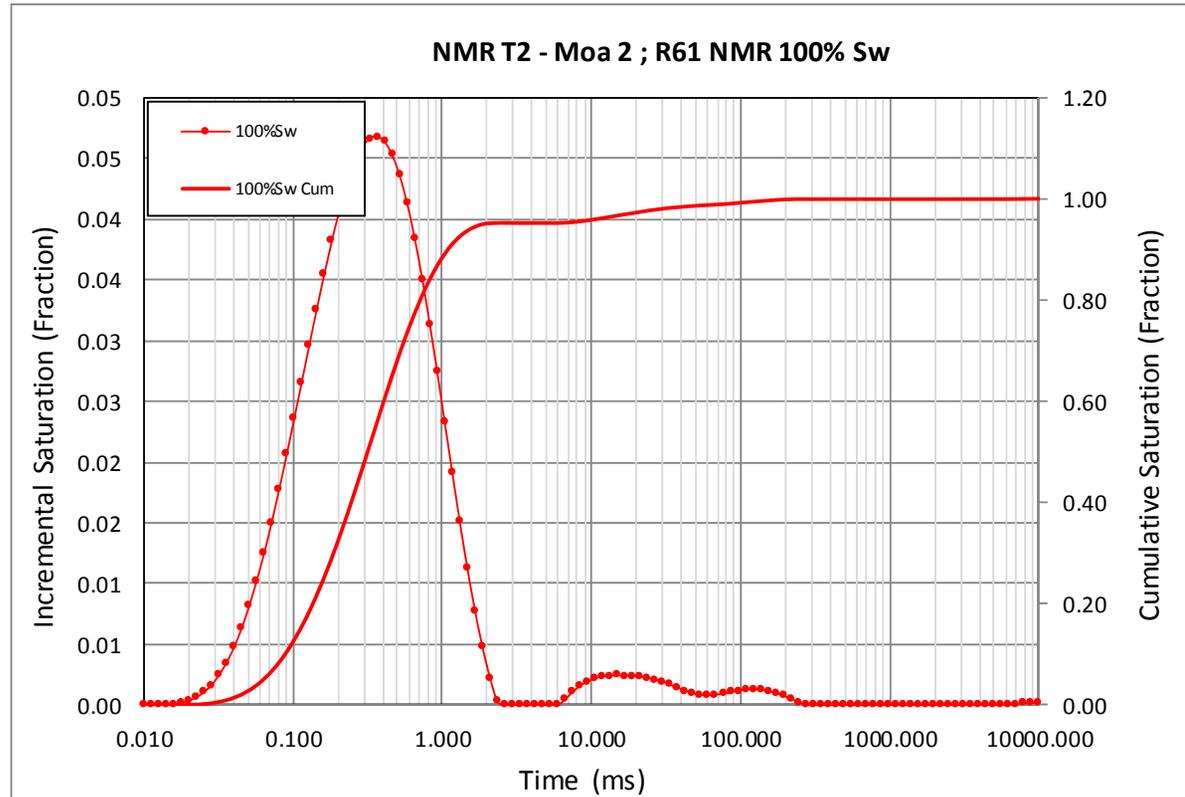
*Trimmed bulk volume



**2MHz - NMR T2
Plugs at 100% Sw**

Client: QGC - A BG Group Business
Well: Moa-2
File: AB-74845 0.1 Te 100% Sw

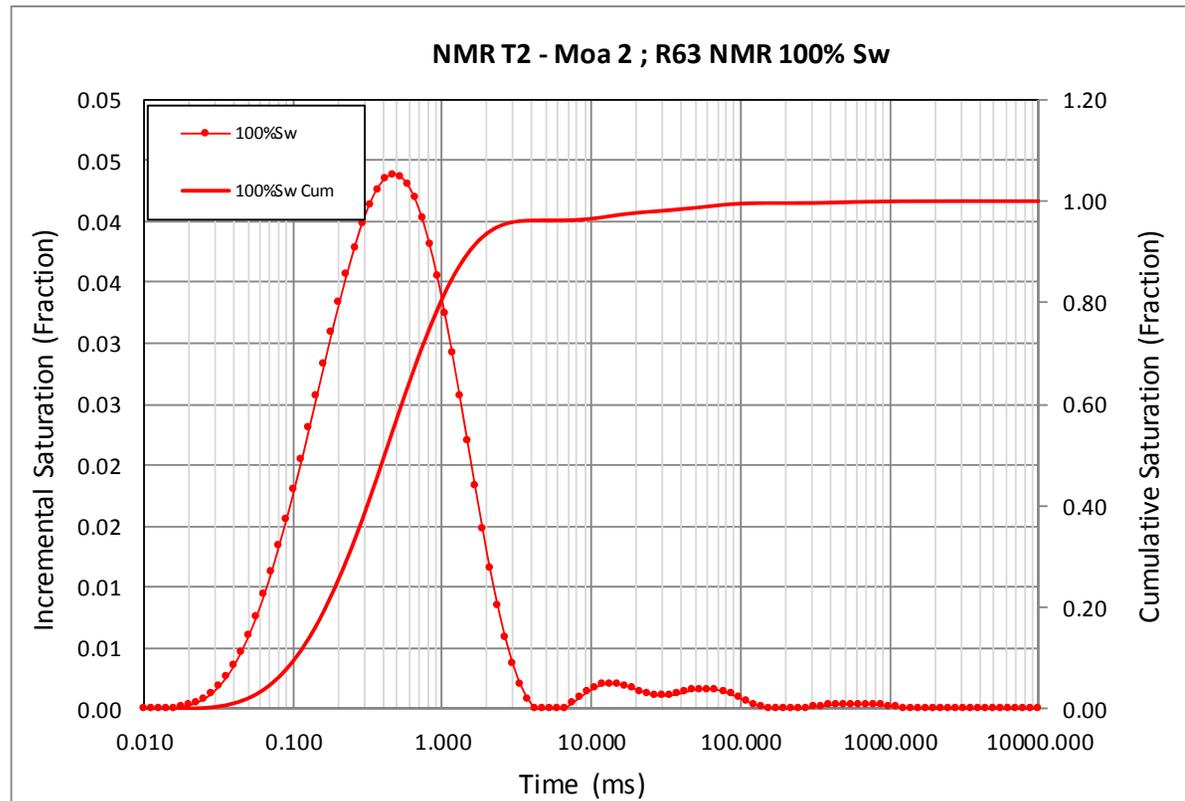
Sample ID	R61
Core Data	
Sample Type	Conventional
Depth (meter)	3896.50
Caliper Bulk Volume (cc)	56.44
Net Confining Stress (Psi)	Ambient
Sample Temperature	Ambient
Helium Porosity (%)	2.70
NMR Data	
T2 Porosity (%), Te = 0.1 ms	6.66
T2 log mean, Te = 0.1 ms	0.38



**2MHz - NMR T2
Plugs at 100% Sw**

Client: QGC - A BG Group Business
Well: Moa-2
File: AB-74845 0.1 Te 100% Sw

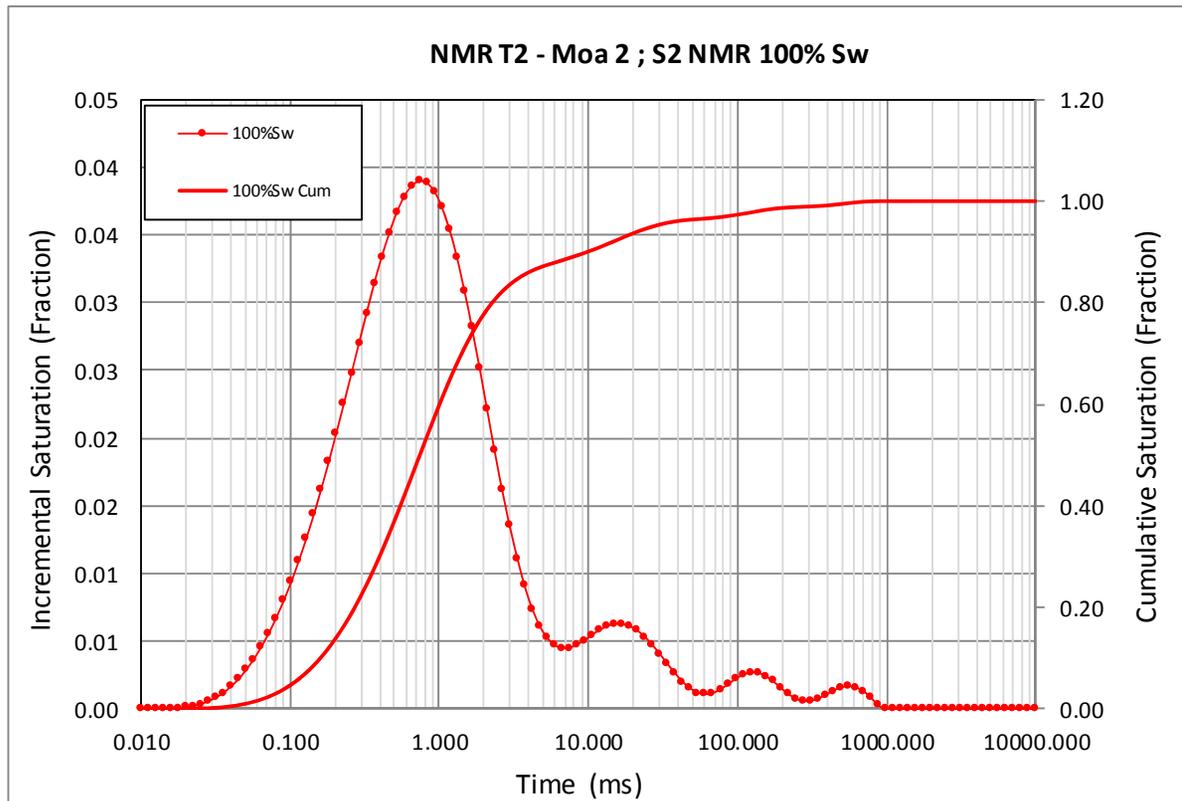
Sample ID	R63
Core Data	
Sample Type	Conventional
Depth (meter)	3897.70
Caliper Bulk Volume (cc)	56.69
Net Confining Stress (Psi)	Ambient
Sample Temperature	Ambient
Helium Porosity (%)	3.50
NMR Data	
T2 Porosity (%), Te = 0.1 ms	7.57
T2 log mean, Te = 0.1 ms	0.47



**2MHz - NMR T2
Plugs at 100% Sw**

Client: QGC - A BG Group Business
Well: Moa-2
File: AB-74845 0.1 Te 100% Sw

Sample ID	S2
Core Data	
Sample Type	Conventional
Depth (meter)	3851.49
Caliper Bulk Volume (cc)	56.53
Net Confining Stress (Psi)	Ambient
Sample Temperature	Ambient
Helium Porosity (%)	5.10
NMR Data	
T2 Porosity (%), Te = 0.1 ms	8.92
T2 log mean, Te = 0.1 ms	1.00



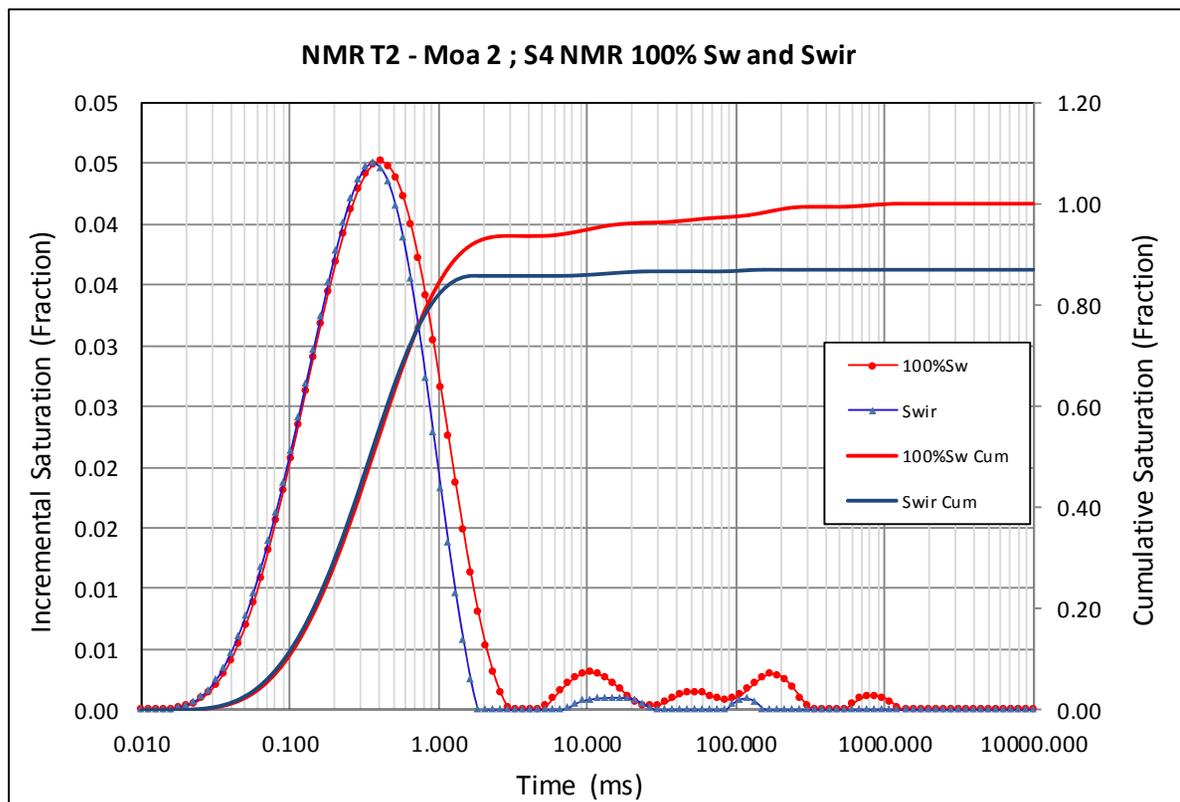
**2MHz - NMR T2
Plugs at 100% Sw and Swir**

Client: QGC - A BG Group Business

Well: Moa-2

File: AB-74845 0.1 Te 100% Sw and Swir

Sample ID	S4
Core Data	
Sample Type	Conventional
Depth, meters	3854.51
Caliper Bulk Volume (cc)	56.33
Net Confining Stress (Psi)	Ambient
Sample Temperature	Ambient
Helium Porosity (%)	3.8
NMR Data	
T2 Saturation (mL), 100% Sw	6.40
T2 Porosity (%), 100% Sw	11.37
T2 Saturation (frac), 100% Sw	1.00
T2 log mean, 100% Sw	0.46
T2 Saturation (mL), Swir	5.57
T2 Porosity (%), Swir	9.88
T2 Saturation (frac), Swir	0.87
T2 log mean, Swir	0.46

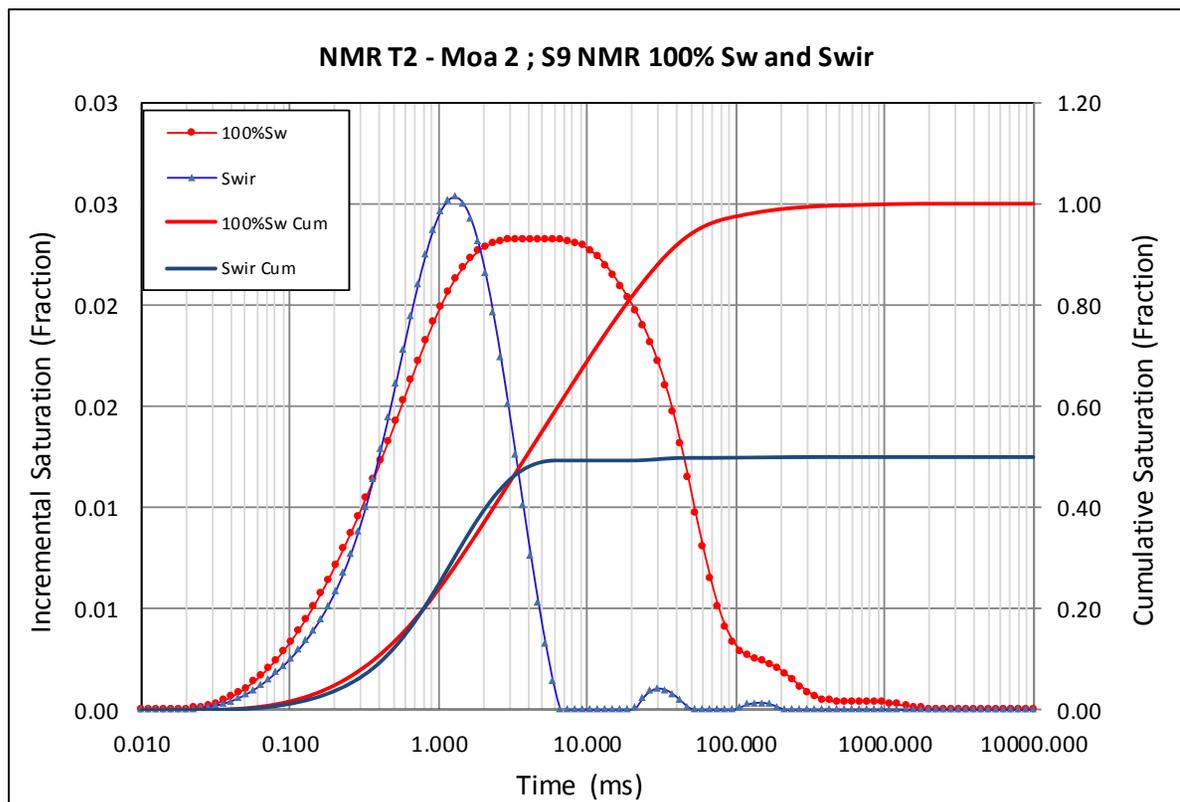


**2MHz - NMR T2
Plugs at 100% Sw and Swir**

Client: QGC - A BG Group Business
Well: Moa-2
File: AB-74845 0.1 Te 100% Sw and Swir

Sample ID	S9
Core Data	
Sample Type	Conventional
Depth, meters	3865.52
*Caliper Bulk Volume (cc)	41.92
Net Confining Stress (Psi)	Ambient
Sample Temperature	Ambient
Helium Porosity (%)	8.8
NMR Data	
T2 Saturation (mL), 100% Sw	5.78
T2 Porosity (%), 100% Sw	13.80
T2 Saturation (frac), 100% Sw	1.00
T2 log mean, 100% Sw	4.00
T2 Saturation (mL), Swir	2.89
T2 Porosity (%), Swir	6.90
T2 Saturation (frac), Swir	0.50
T2 log mean, Swir	4.00

*Trimmed bulk volume



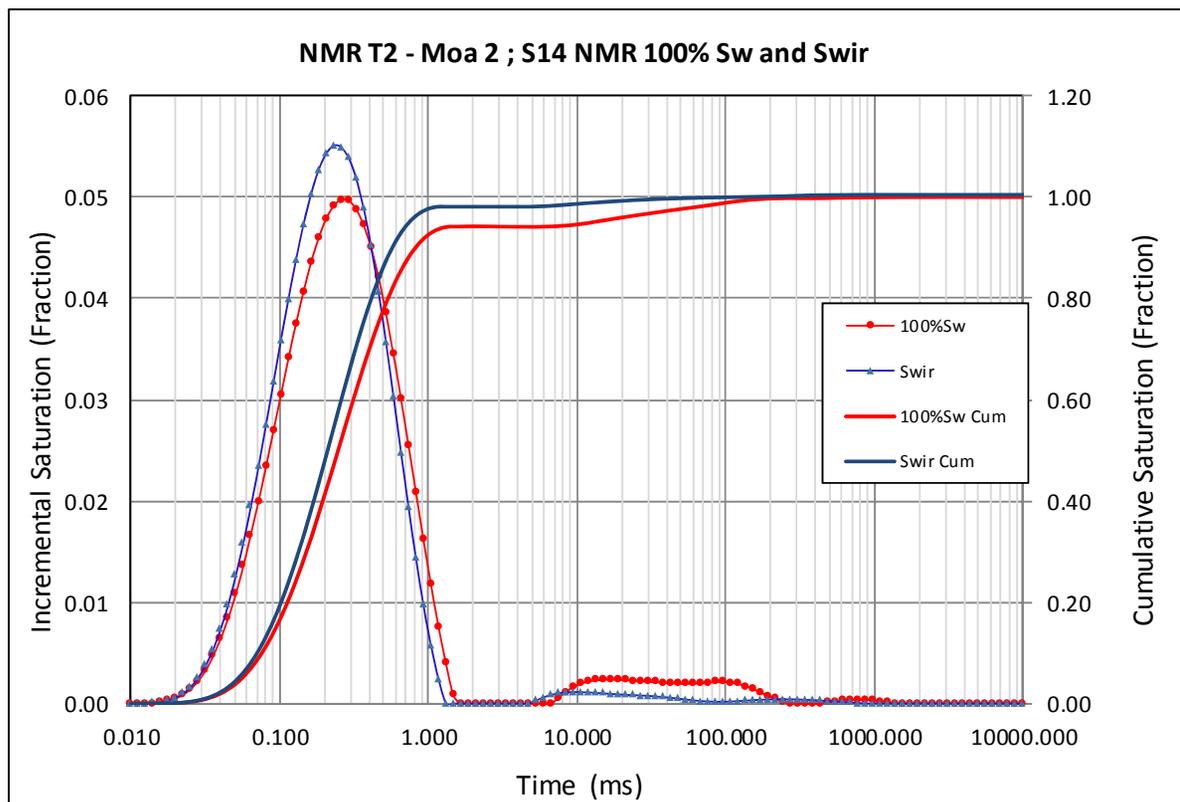
**2MHz - NMR T2
Plugs at 100% Sw and Swir**

Client: QGC - A BG Group Business

Well: Moa-2

File: AB-74845 0.1 Te 100% Sw and Swir

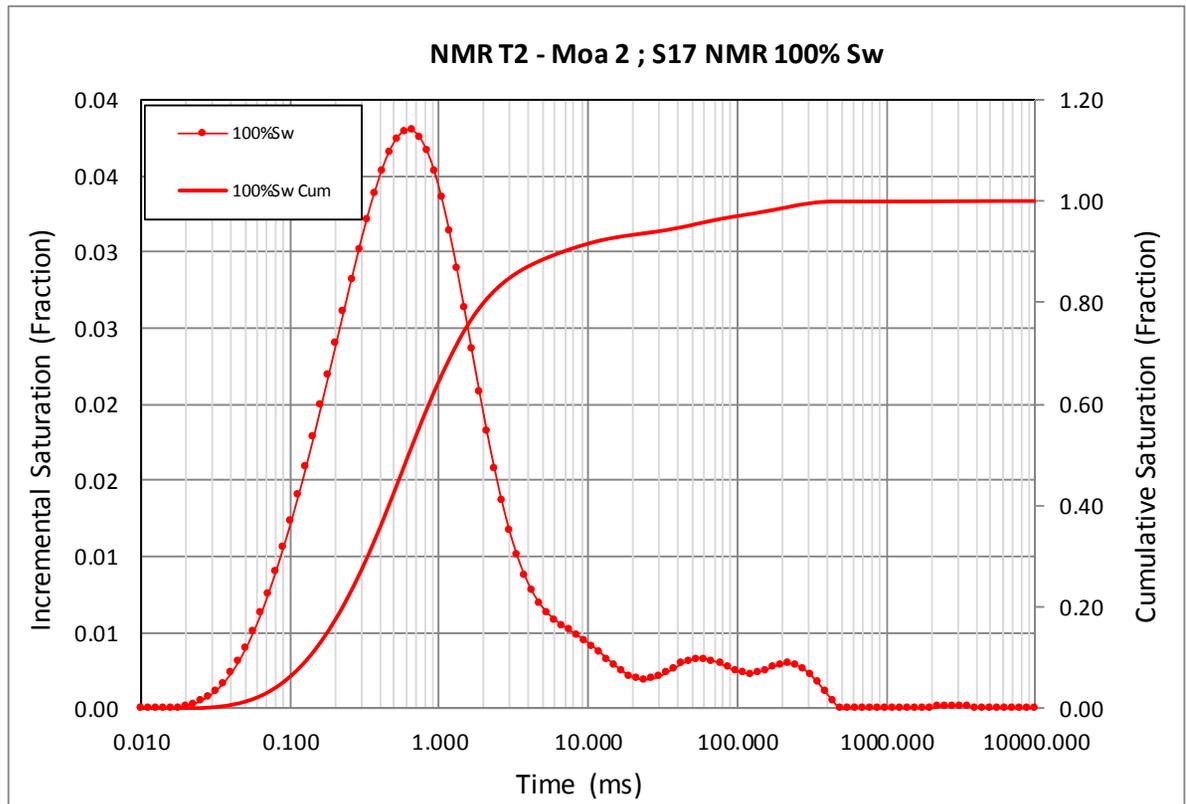
Sample ID	S14
Core Data	
Sample Type	Conventional
Depth, meters	3875.65
Caliper Bulk Volume (cc)	56.50
Net Confining Stress (Psi)	Ambient
Sample Temperature	Ambient
Helium Porosity (%)	1.6
NMR Data	
T2 Saturation (mL), 100% Sw	3.12
T2 Porosity (%), 100% Sw	5.52
T2 Saturation (frac), 100% Sw	1.00
T2 log mean, 100% Sw	0.32
T2 Saturation (mL), Swir	3.13
T2 Porosity (%), Swir	5.55
T2 Saturation (frac), Swir	1.00
T2 log mean, Swir	0.32



**2MHz - NMR T2
Plugs at 100% Sw**

Client: QGC - A BG Group Business
Well: Moa-2
File: AB-74845 0.1 Te 100% Sw

Sample ID	S17
Core Data	
Sample Type	Conventional
Depth (meter)	3883.36
Caliper Bulk Volume (cc)	56.47
Net Confining Stress (Psi)	Ambient
Sample Temperature	Ambient
Helium Porosity (%)	4.50
NMR Data	
T2 Porosity (%), Te = 0.1 ms	9.79
T2 log mean, Te = 0.1 ms	0.86

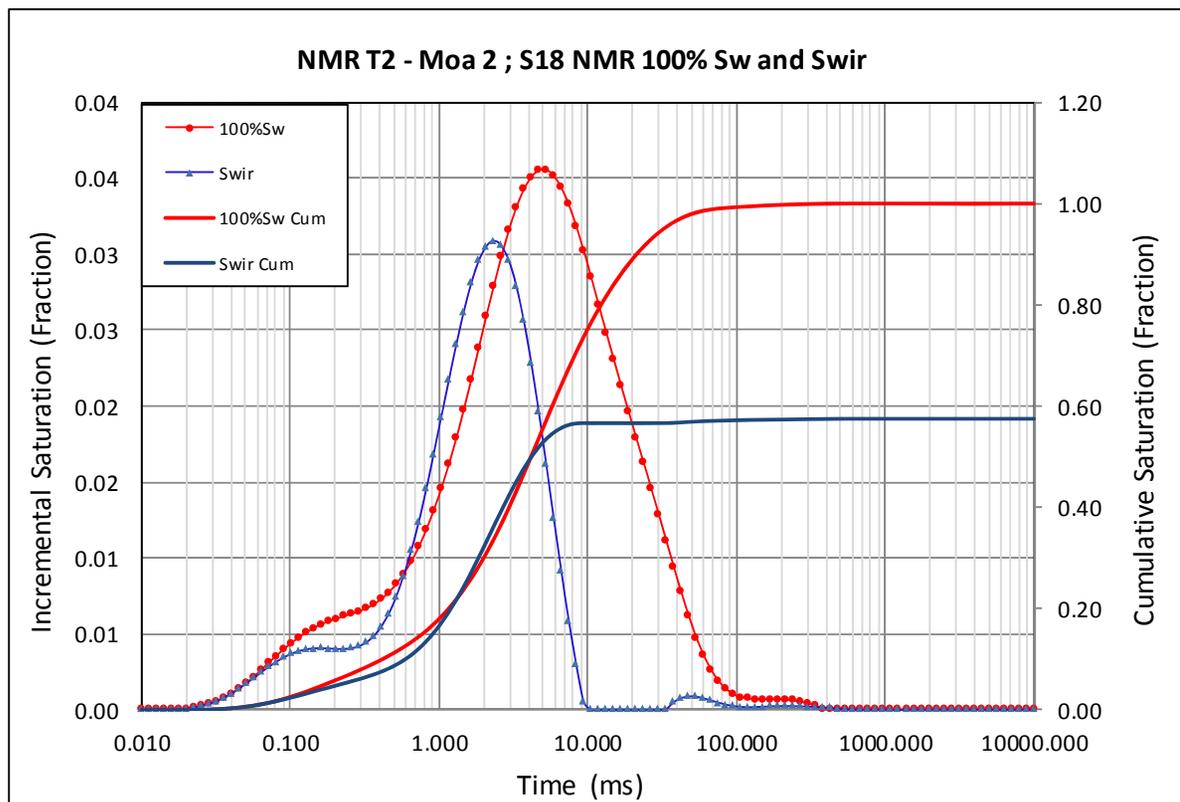


**2MHz - NMR T2
Plugs at 100% Sw and Swir**

Client: QGC - A BG Group Business
Well: Moa-2
File: AB-74845 0.1 Te 100% Sw and Swir

Sample ID	S18
Core Data	
Sample Type	Conventional
Depth, meters	3884.52
*Caliper Bulk Volume (cc)	43.23
Net Confining Stress (Psi)	Ambient
Sample Temperature	Ambient
Helium Porosity (%)	9.2
NMR Data	
T2 Saturation (mL), 100% Sw	5.36
T2 Porosity (%), 100% Sw	12.40
T2 Saturation (frac), 100% Sw	1.00
T2 log mean, 100% Sw	3.76
T2 Saturation (mL), Swir	3.08
T2 Porosity (%), Swir	7.13
T2 Saturation (frac), Swir	0.58
T2 log mean, Swir	3.76

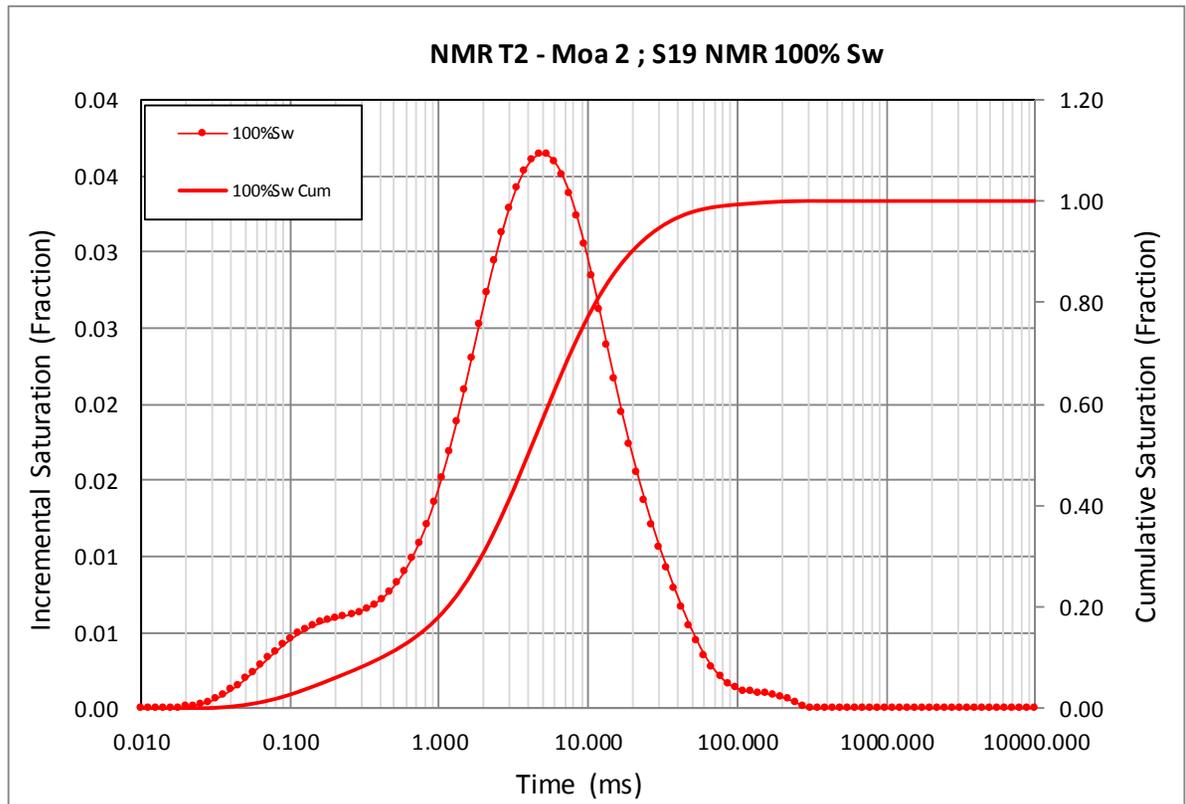
*Trimmed bulk volume



**2MHz - NMR T2
Plugs at 100% Sw**

Client: QGC - A BG Group Business
Well: Moa-2
File: AB-74845 0.1 Te 100% Sw

Sample ID	S19
Core Data	
Sample Type	Conventional
Depth (meter)	3885.50
Caliper Bulk Volume (cc)	53.93
Net Confining Stress (Psi)	Ambient
Sample Temperature	Ambient
Helium Porosity (%)	8.10
NMR Data	
T2 Porosity (%), Te = 0.1 ms	10.93
T2 log mean, Te = 0.1 ms	3.56



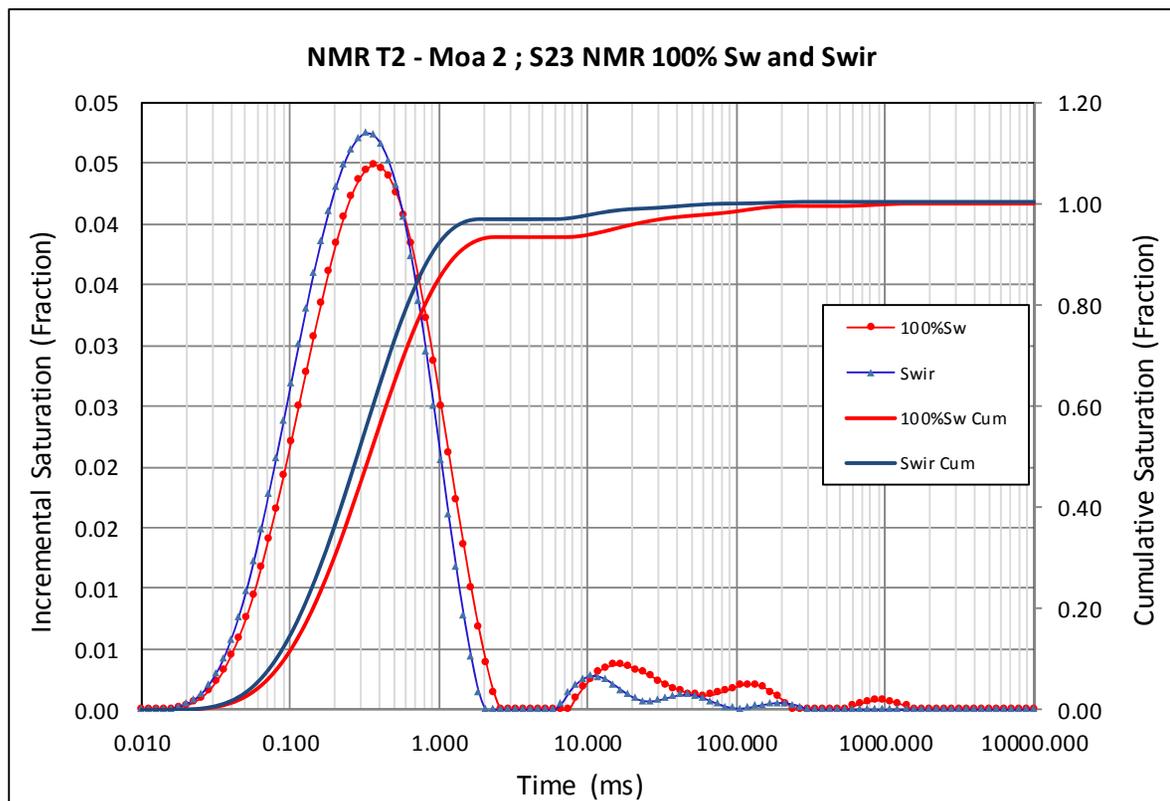
**2MHz - NMR T2
Plugs at 100% Sw and Swir**

Client: QGC - A BG Group Business

Well: Moa-2

File: AB-74845 0.1 Te 100% Sw and Swir

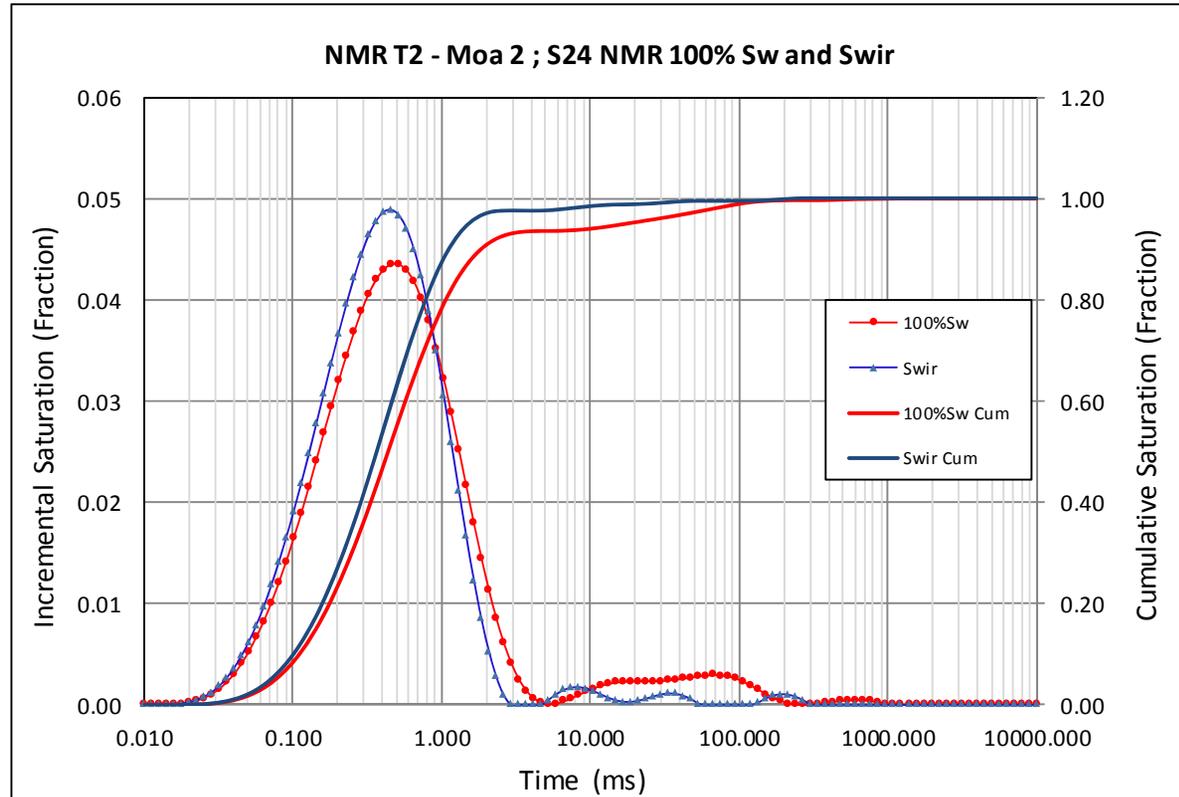
Sample ID	S23
Core Data	
Sample Type	Conventional
Depth, meters	3896.55
Caliper Bulk Volume (cc)	56.43
Net Confining Stress (Psi)	Ambient
Sample Temperature	Ambient
Helium Porosity (%)	2.3
NMR Data	
T2 Saturation (mL), 100% Sw	3.77
T2 Porosity (%), 100% Sw	6.68
T2 Saturation (frac), 100% Sw	1.00
T2 log mean, 100% Sw	0.44
T2 Saturation (mL), Swir	3.78
T2 Porosity (%), Swir	6.70
T2 Saturation (frac), Swir	1.00
T2 log mean, Swir	0.44



**2MHz - NMR T2
Plugs at 100% Sw and Swir**

Client: QGC-A BG Group Business
Well: Moa 2
File: AB-74845 0.1 Te 100% Sw and Swir

Sample ID	S24
Core Data	
Sample Type	Conventional
Depth, meters	3897.65
Caliper Bulk Volume (cc)	56.45
Net Confining Stress (Psi)	Ambient
Sample Temperature	Ambient
Helium Porosity (%)	3.4
NMR Data	
T2 Saturation (mL), 100% Sw	4.08
T2 Porosity (%), 100% Sw	7.22
T2 Saturation (frac), 100% Sw	1.00
T2 log mean, 100% Sw	0.55
T2 Saturation (mL), Swir	4.08
T2 Porosity (%), Swir	7.23
T2 Saturation (frac), Swir	1.00
T2 log mean, Swir	0.55





**QGC – A BG GROUP BUSINESS
MOA-2**

Resistivity Index Test Results

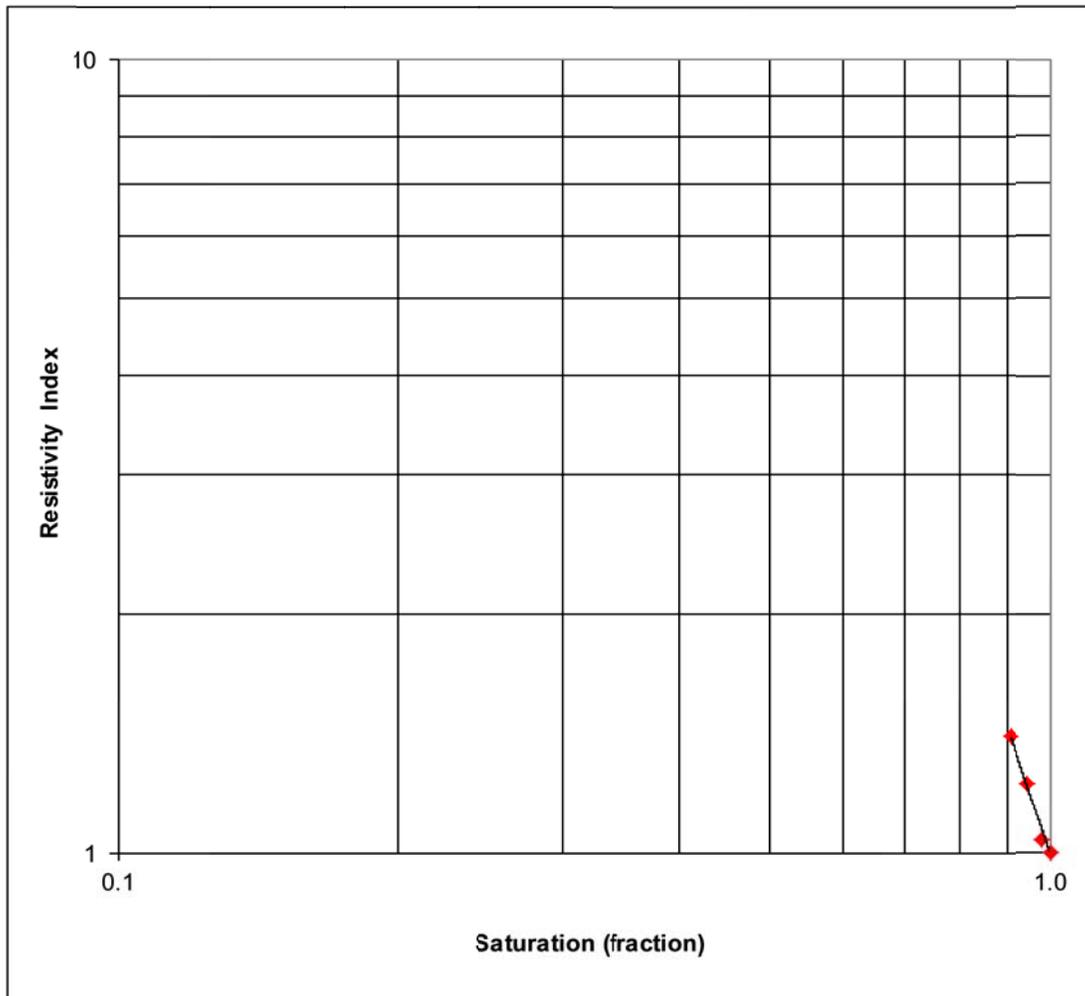
RESISTIVITY INDEX



Client QGC - A BG Group business
Well Moa-2

Rw of Saturant 0.133 at 25°C
Method Air/Brine Porous Plate @ Overburden

Sample Number	Depth (metres)	Permeability to Air (milliDarcy's)	Porosity (percent)	Formation Factor FF	Brine Saturation (fraction)	Resistivity Index RI	Saturation Exponent n
S2	3851.49	0.0016	4.8	262	1.000	1.00	
					0.982	1.04	
					0.945	1.22	
					0.908	1.40	3.46



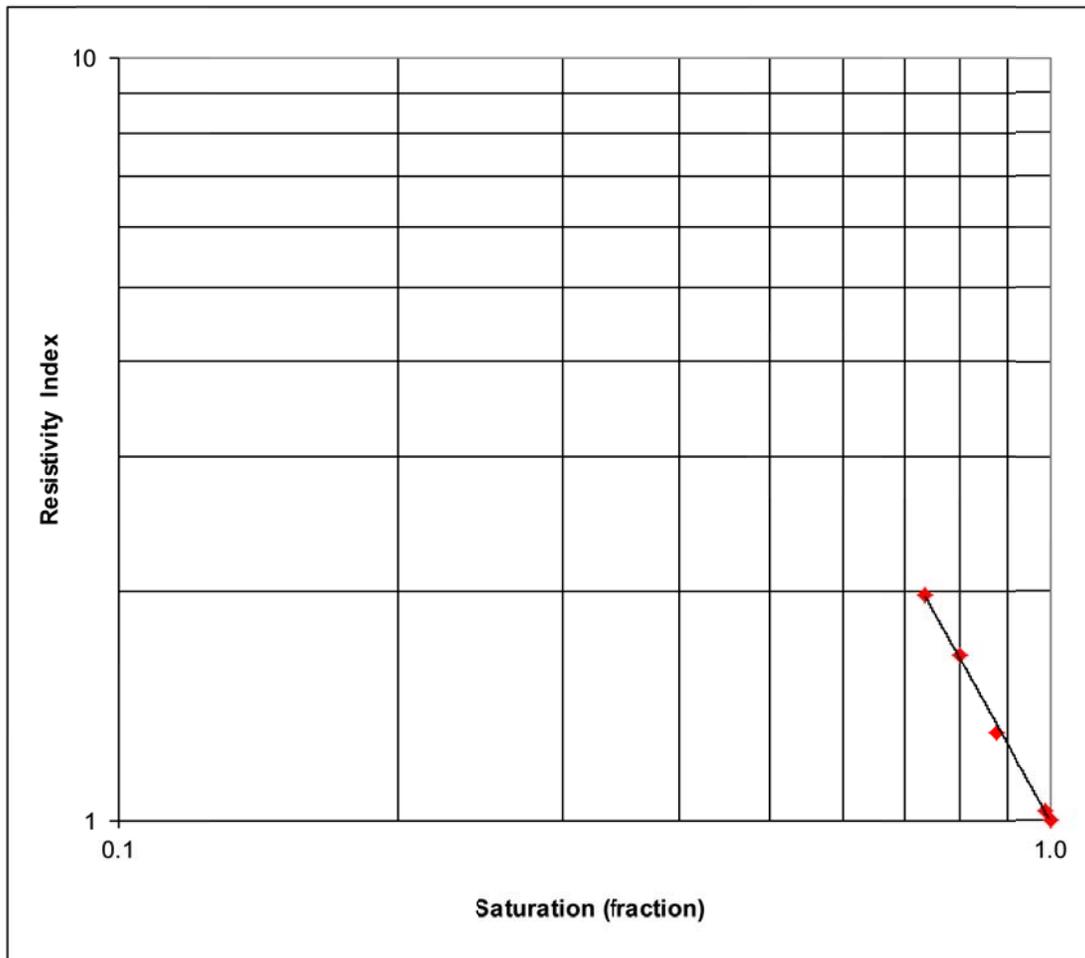
RESISTIVITY INDEX



Client QGC - A BG Group business
Well Moa-2

Rw of Saturant 0.133 at 25°C
Method Air/Brine Porous Plate @ Overburden

Sample Number	Depth (metres)	Permeability to Air (milliDarcy's)	Porosity (percent)	Formation Factor FF	Brine Saturation (fraction)	Resistivity Index RI	Saturation Exponent n
R46	3884.46	0.29	7.2	145	1.000	1.00	2.20
					0.987	1.03	
					0.874	1.30	
					0.799	1.65	
					0.736	1.98	



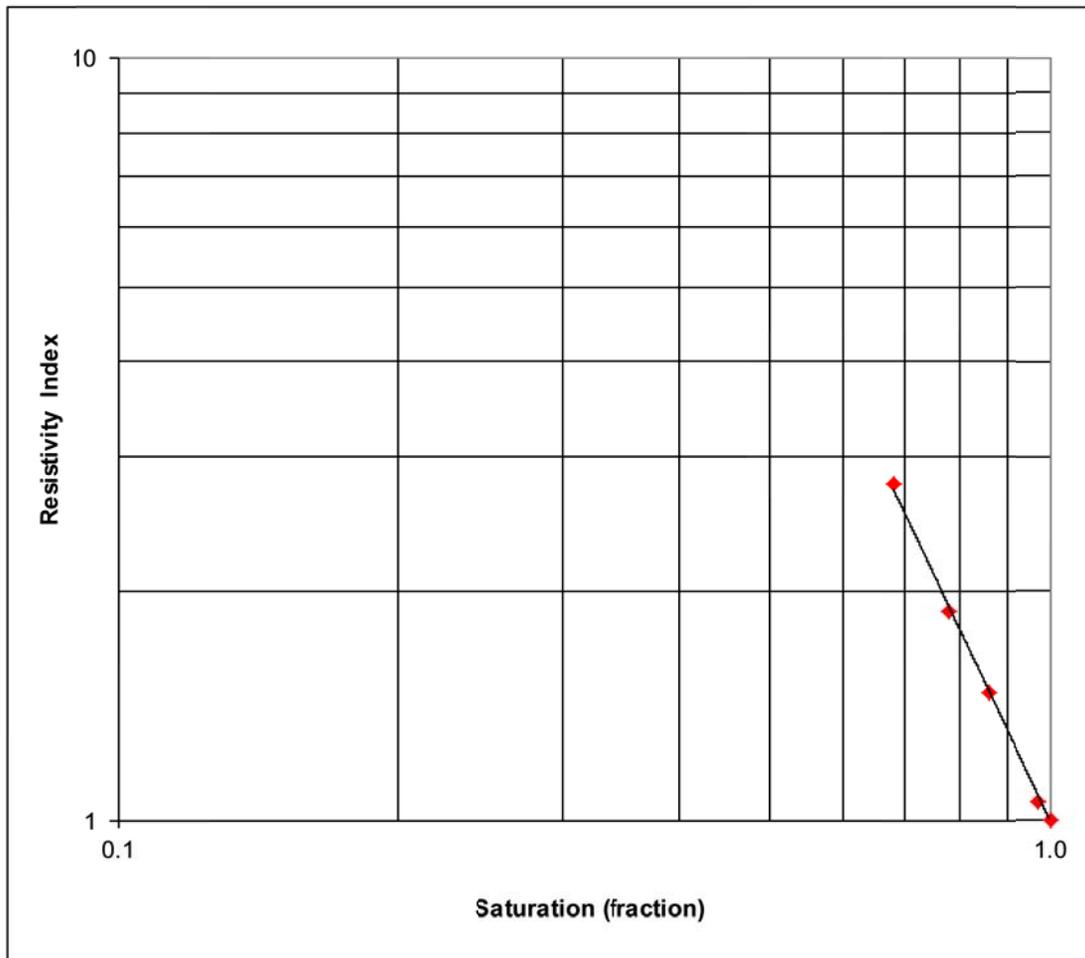
RESISTIVITY INDEX



Client QGC - A BG Group business
Well Moa-2

Rw of Saturant 0.133 at 25°C
Method Air/Brine Porous Plate @ Overburden

Sample Number	Depth (metres)	Permeability to Air (milliDarcy's)	Porosity (percent)	Formation Factor FF	Brine Saturation (fraction)	Resistivity Index RI	Saturation Exponent n
S19	3885.50	0.16	6.7	174	1.000	1.00	2.52
					0.972	1.06	
					0.861	1.47	
					0.777	1.88	
					0.679	2.77	



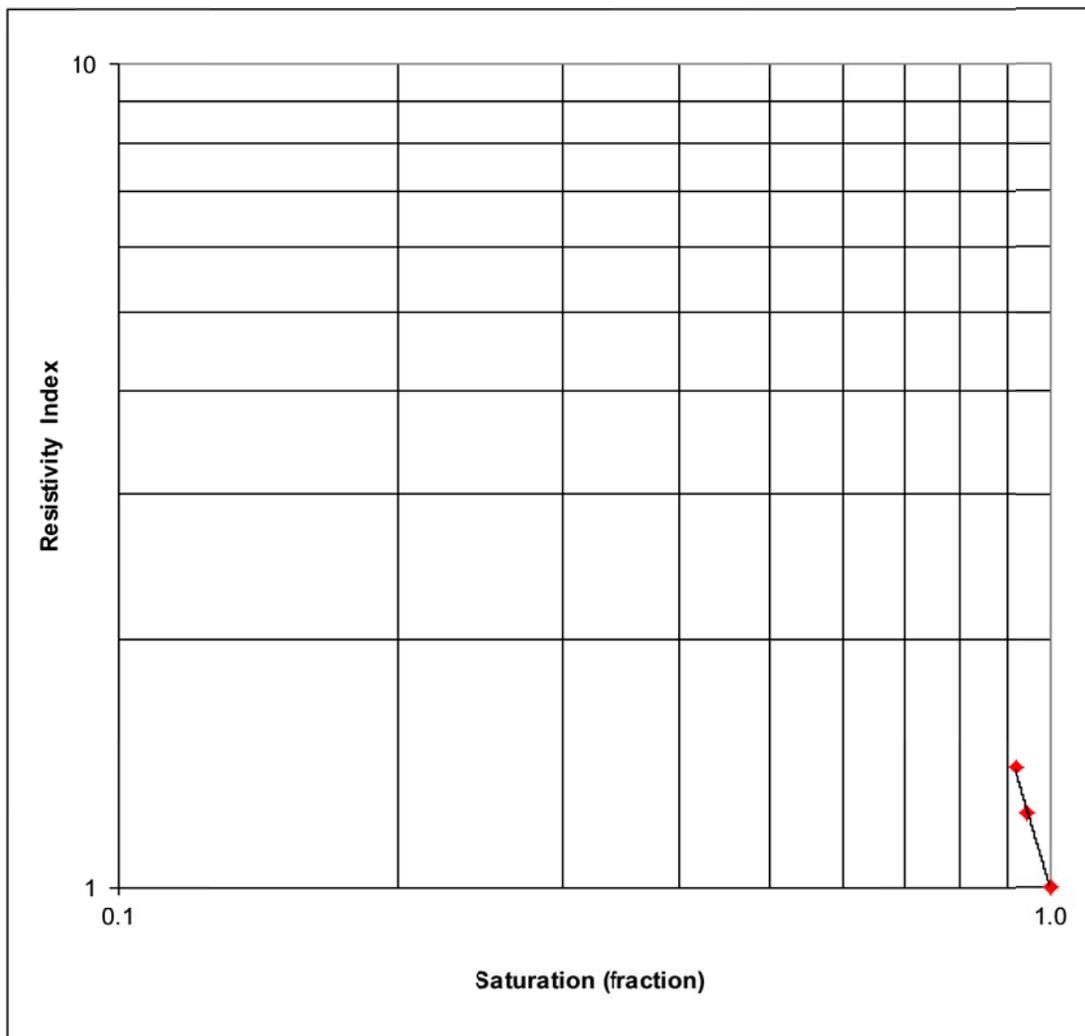
RESISTIVITY INDEX



Client QGC - A BG Group business
Well Moa-2

Rw of Saturant 0.133 at 25°C
Method Air/Brine Porous Plate @ Overburden

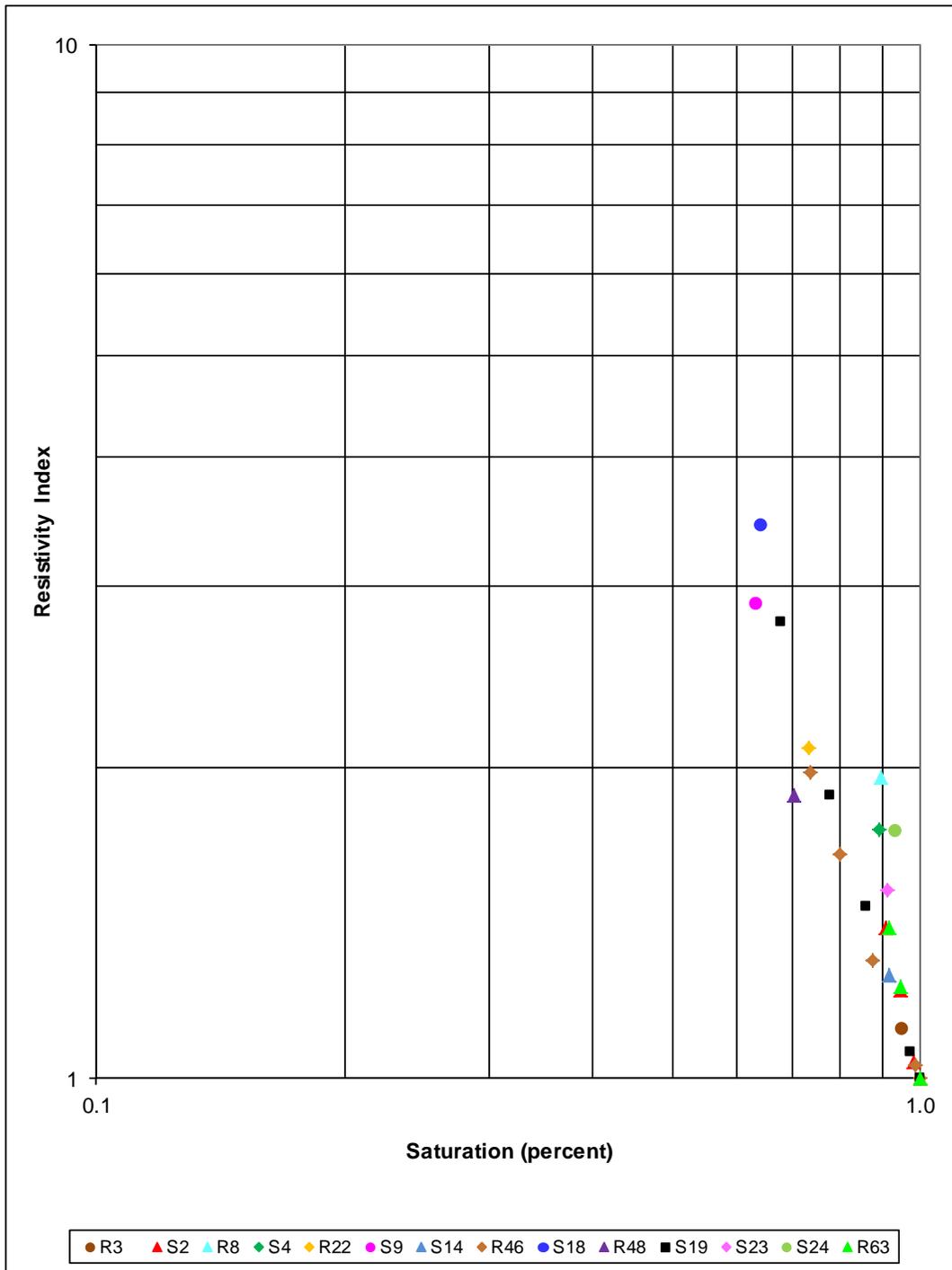
Sample Number	Depth (metres)	Permeability to Air (milliDarcy's)	Porosity (percent)	Formation Factor FF	Brine Saturation (fraction)	Resistivity Index RI	Saturation Exponent n
R63	3897.70	0.0031	3.2	433	1.000	1.00	
					0.945	1.23	
					0.918	1.40	3.85



RESISTIVITY INDEX

Client QGC - A BG Group Business
Well Moa-2

Rw of Saturant 0.133 at 25°C
Method Air/Brine Porous Plate @ Overburden





**QGC – A BG GROUP BUSINESS
MOA-2**

Capillary Pressure Test Results

CAPILLARY PRESSURE Overburden

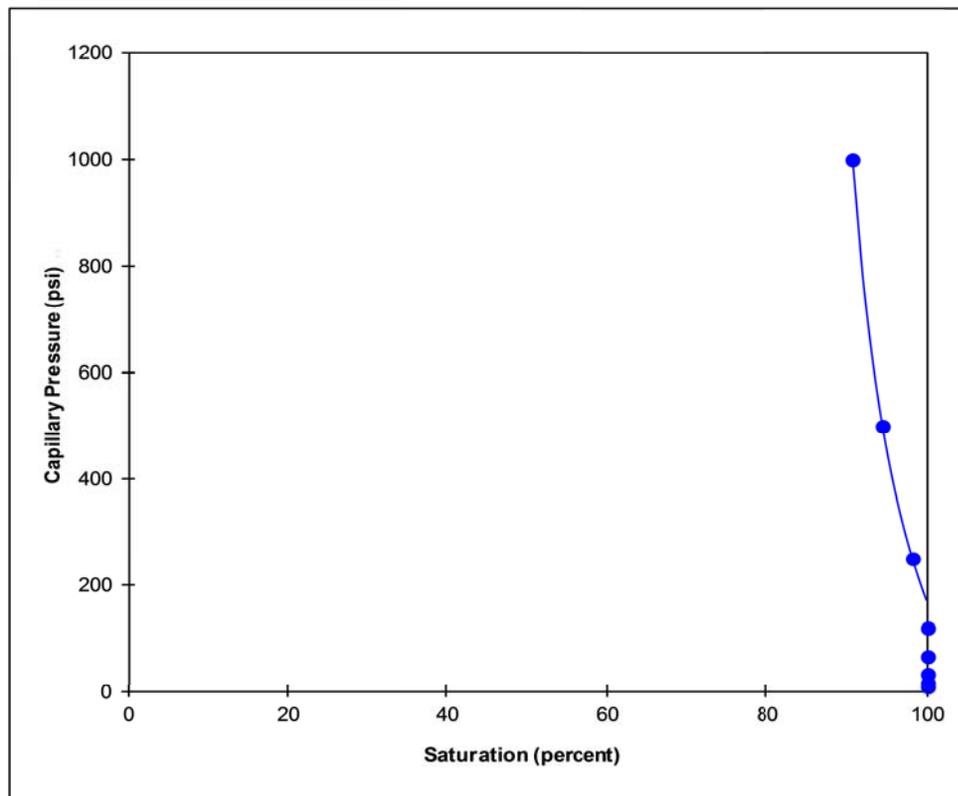


Client QGC - A BG Group business **Air Permeability** 0.0016 milliDarcy's
Well Moa-2 **Porosity** 4.8 percent

Sample S2
Depth 3851.49 metres

Test Method Air/Brine Porous Plate @ Overburden
Overburden 4200 psi

Capillary Pressure (psi)	Brine Saturation (percent)
8.0	100.0
16	100.0
32	100.0
64	100.0
120	100.0
250	98.2
500	94.5
1000	90.8



CAPILLARY PRESSURE Overburden

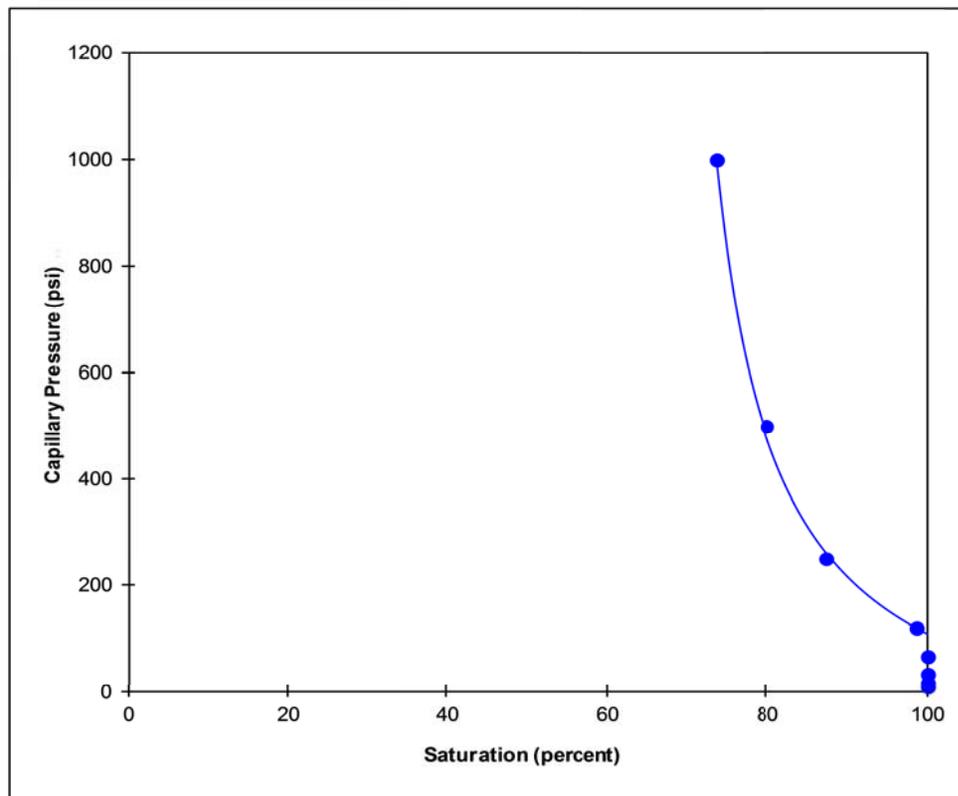


Client QGC - A BG Group business **Air Permeability** 0.29 milliDarcy's
Well Moa-2 **Porosity** 7.2 percent

Sample R46
Depth 3884.46 metres

Test Method Air/Brine Porous Plate @ Overburden
Overburden 4200 psi

Capillary Pressure (psi)	Brine Saturation (percent)
8.0	100.0
16	100.0
32	100.0
64	100.0
120	98.7
250	87.4
500	79.9
1000	73.6



CAPILLARY PRESSURE Overburden

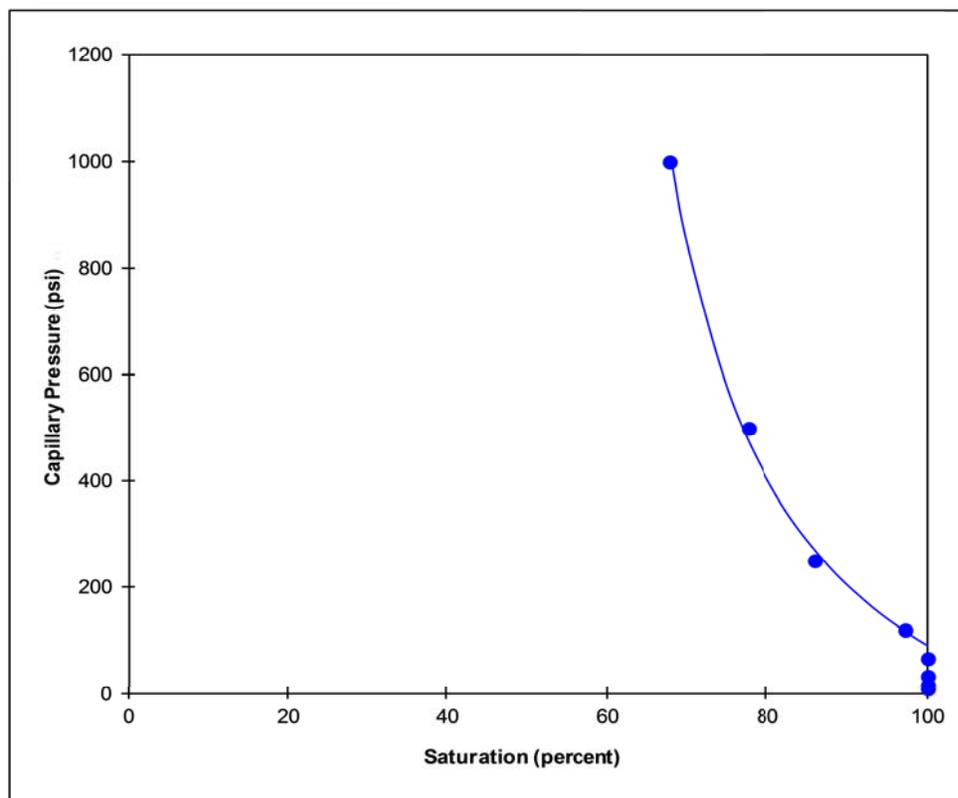


Client QGC - A BG Group business **Air Permeability** 0.16 milliDarcy's
Well Moa-2 **Porosity** 6.7 percent

Sample S19
Depth 3885.50 metres

Test Method Air/Brine Porous Plate @ Overburden
Overburden 4200 psi

Capillary Pressure (psi)	Brine Saturation (percent)
8.0	100.0
16	100.0
32	100.0
64	100.0
120	97.2
250	86.1
500	77.7
1000	67.9



CAPILLARY PRESSURE Overburden

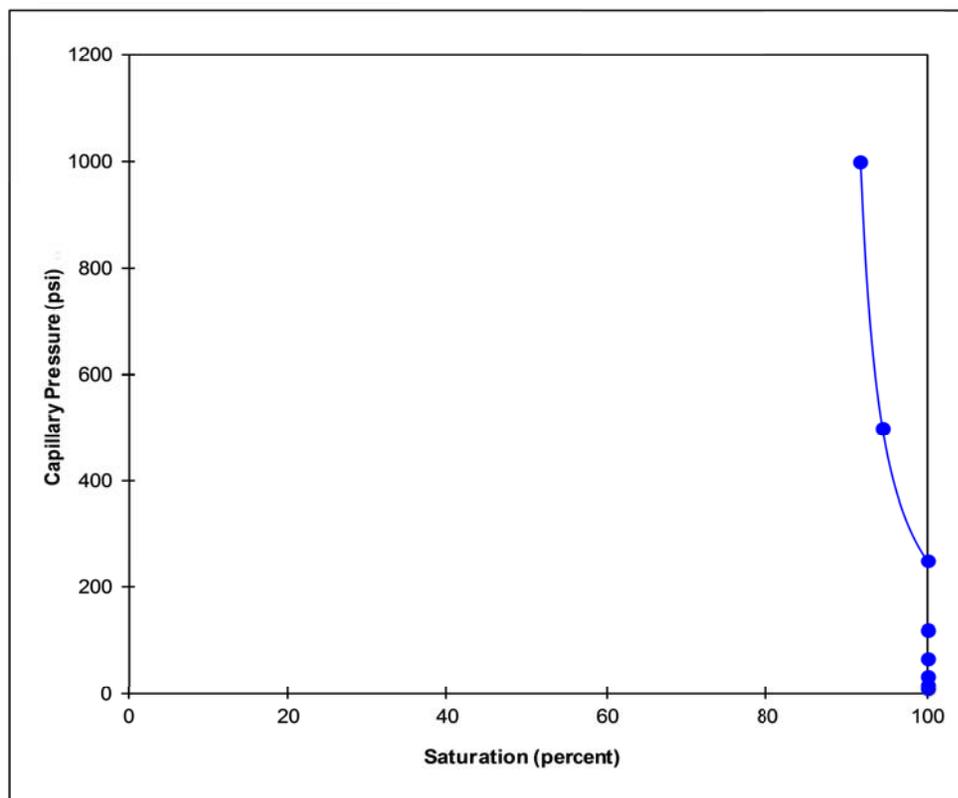


Client QGC - A BG Group business **Air Permeability** 0.0031 milliDarcy's
Well Moa-2 **Porosity** 3.2 percent

Sample R63
Depth 3897.70 metres

Test Method Air/Brine Porous Plate @ Overburden
Overburden 4200 psi

Capillary Pressure (psi)	Brine Saturation (percent)
8.0	100.0
16	100.0
32	100.0
64	100.0
120	100.0
250	100.0
500	94.5
1000	91.8



ELECTRICAL PROPERTIES SUMMARY



Client QGC - A BG Group business
Well Moa-2

Rw of Saturant 0.133 at 25°C
Overburden Various
Date 3/03/2016

Sample Number	Depth (metres)	Ambient 400 psi			Overburden 1500 psi			Overburden 2500 psi			Overburden 4200 psi					
		Ambient Porosity (percent)	Formation Factor FF	Cementation Exponent m	Porosity (percent)	Formation Factor FF	Cementation Exponent m	Porosity (percent)	Formation Factor FF	Cementation Exponent m	Porosity (percent)	Formation Factor FF	Cementation Exponent m	Residual Saturation (percent)	Resistivity Index RI	Saturation Exponent n
R3	3851.45	5.4	199	1.81	5.3	224	1.84	5.2	240	1.86	5.2	291	1.91	94.8	1.12	2.12
S2	3851.49	5.1	210	1.80	5.0	240	1.83	4.9	250	1.83	4.8	262	1.84	90.8	1.40	3.46
R8	3854.47	3.5	150	1.50	3.3	167	1.50	3.2	197	1.53	3.1	243	1.59	89.8	1.96	6.25
S4	3854.51	3.8	98.1	1.40	3.7	121	1.45	3.6	131	1.46	3.4	170	1.52	89.1	1.74	4.80
R22	3865.40	7.7	71.9	1.67	7.0	100	1.73	6.6	117	1.75	6.2	143	1.78	73.3	2.09	2.37
S9	3865.52	8.8	50.1	1.61	8.3	72.5	1.73	7.8	90.5	1.76	7.5	113	1.82	63.1	2.89	2.30
S14	3875.65	1.6	319	1.39	1.5	382	1.41	1.4	434	1.42	1.3	521	1.44	91.9	1.26	2.74
R46	3884.46	9.0	67.3	1.75	8.1	90.6	1.79	7.6	116	1.85	7.2	145	1.89	73.6	1.98	2.20
S18	3884.52	9.2	67.4	1.76	8.4	95.4	1.84	7.9	119	1.88	7.5	152	1.94	63.9	3.44	2.76
R48	3885.45	8.4	56.2	1.63	7.8	91.3	1.77	7.4	115	1.82	7.0	149	1.88	70.3	1.88	1.79
S19	3885.50	8.1	73.1	1.70	7.4	99.2	1.77	7.1	122	1.82	6.7	174	1.91	67.9	2.77	2.52
S23	3896.55	2.3	276	1.49	2.2	309	1.50	2.1	359	1.52	2.0	384	1.53	91.3	1.52	4.60
S24	3897.65	3.4	343	1.72	3.3	388	1.75	3.3	410	1.76	3.2	462	1.78	92.8	1.74	7.41
R63	3897.70	3.5	348	1.74	3.4	363	1.74	3.3	388	1.75	3.2	433	1.77	91.8	1.40	3.85

‡ Ambient porosity data measured by helium porosimetry on humidity dried plug samples

BRINE PERMEABILITY AND POROSITY SQUEEZOUT

Client : QGC - A BG Group business
Well : Moa-2

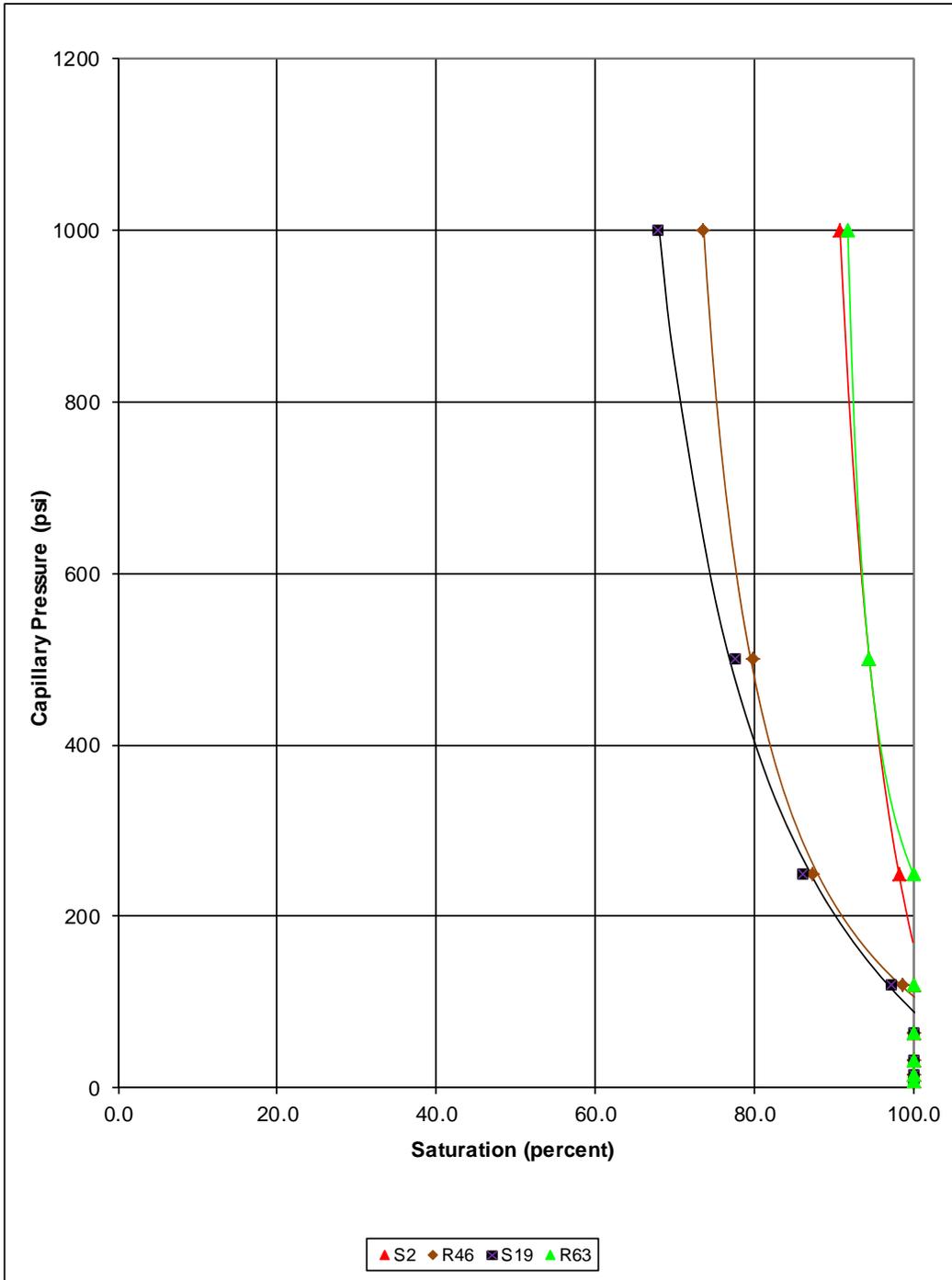
Date : 23/12/2015
File : AB-74845

Sample Number	400 Depth	1500 Porosity	2500 Porosity	4000 Porosity	Grain Density	Ambient Permeability	400 Liquid Permeability	1500 Liquid Permeability	2500 Liquid Permeability	4000 Liquid Permeability	Remarks
	(metres)	(Percent)	(Percent)	(Percent)	(g/cm ³)	(mD)	(mD)	(mD)	(mD)	(mD)	
R3	3851.45	5.4	5.3	5.2	5.2	2.66	0.0035	0.00002	0.000007	0.000004	0.000002
S2	3851.49	5.1	5.0	4.9	4.8	2.64	0.0016	<0.00005	0.000010	0.000004	0.000002
R8	3854.47	3.5	3.3	3.2	3.1	2.64	0.0076	0.000092	0.000017	0.000005	0.000002
S4	3854.51	3.8	3.7	3.6	3.4	2.63	0.033	0.0022	0.00015	0.000061	0.000010
R22	3865.40	7.7	7.0	6.6	6.2	2.63	0.48	0.14	0.017	0.0036	0.00058
S9	3875.65	8.8	8.3	7.8	7.5	2.65	0.46	0.12	0.039	0.012	0.0038
S14	3875.65	1.6	1.5	1.4	1.3	2.63	0.0052	0.000062	0.00002	0.000008	0.000003
R46	3884.46	9.0	8.1	7.6	7.2	2.63	0.29	0.059	0.025	0.010	0.0024
S18	3884.52	9.2	8.4	7.9	7.5	2.64	0.23	0.051	0.021	0.0085	0.0026
R48	3885.45	8.4	7.8	7.4	7.0	2.63	0.16	0.058	0.020	0.0067	0.0018
S19	3885.50	8.1	7.4	7.1	6.7	2.64	0.16	0.055	0.020	0.0085	0.0022
S23	3896.55	2.3	2.2	2.1	2.0	2.63	0.013	0.00022	0.000059	0.000016	0.000005
S24	3897.65	3.4	3.3	3.3	3.2	2.64	0.0037	0.00002	0.000003	0.000001	0.000001
R63	3897.70	3.5	3.4	3.3	3.2	2.63	0.0031	0.00006	0.000010	0.000004	0.000002

CAPILLARY PRESSURE

Client QGC - A BG Group Business
Well Moa-2

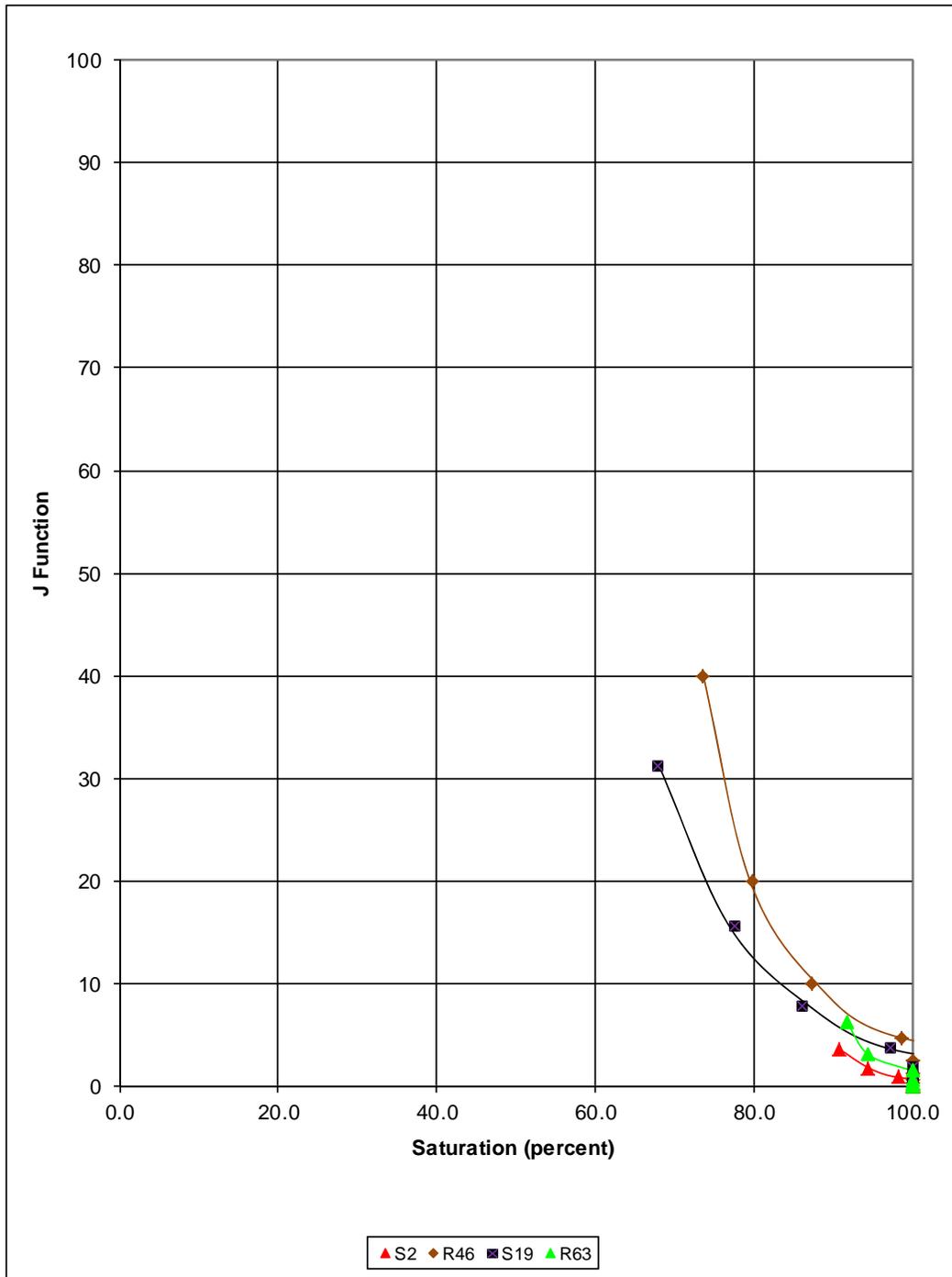
Method Air/Brine Porous Plate @ Overburden



J FUNCTION

Client QGC - A BG Group Business
Well Moa-2

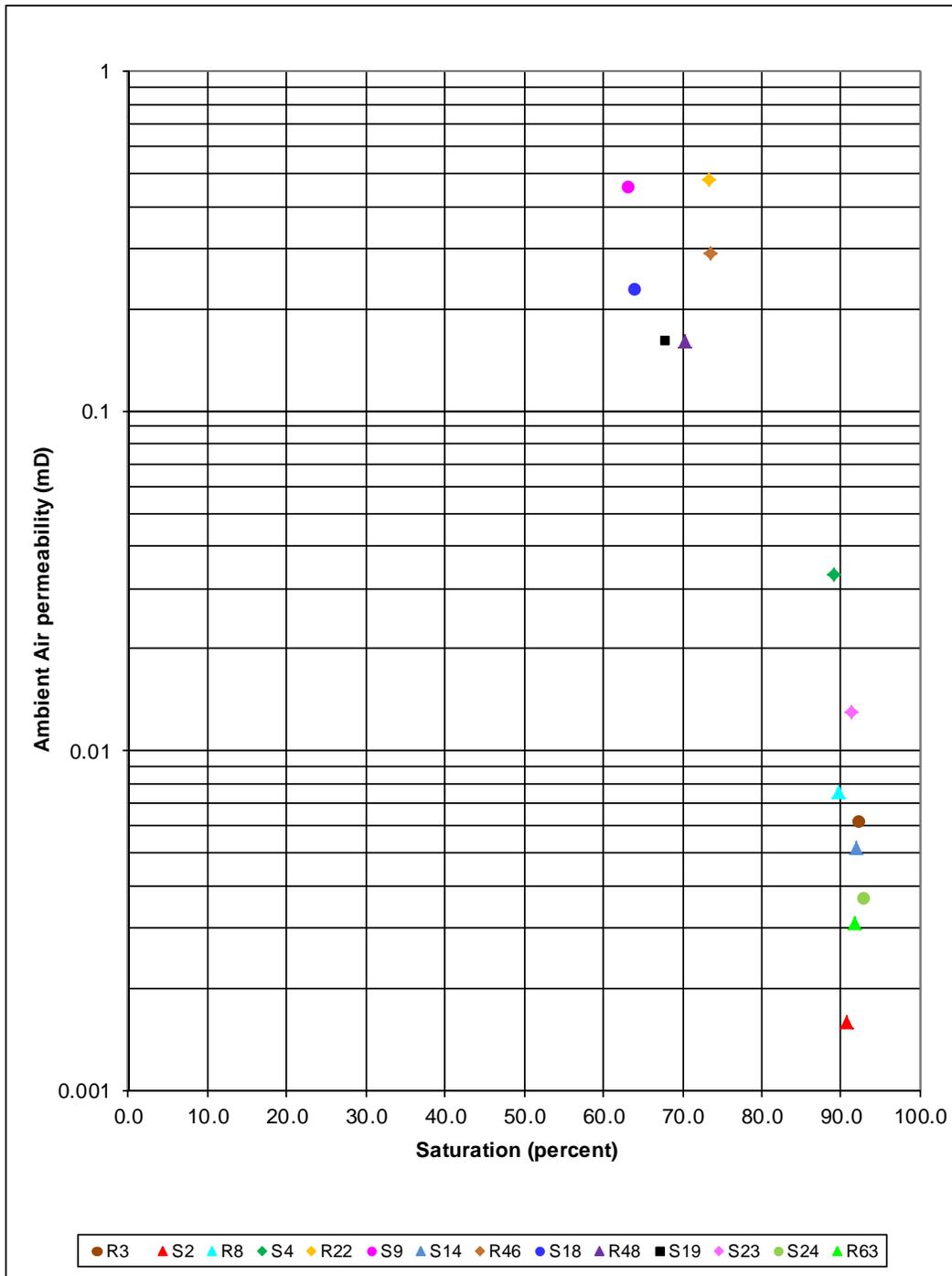
Method Air/Brine Porous Plate @ Overburden



RESIDUAL SATURATION

Client QGC - A BG Group Business
Well Moa-2

Method Air/Brine Porous Plate @ Overburden



MERCURY INJECTION CAPILLARY PRESSURE

Sample off-cuts of sufficient volume to fill the sample chamber (circa 2 cm³) were utilised for capillary pressure determinations by the mercury injection technique. The mercury injection apparatus used was semi-automatic Micromeritics Autopore IV 9520, which can operate up to a pressure of 60,000 psia, and can measure intrusions as small as 0.0001 cm³.

The Micromeritics Autopore records mercury intrusion by measuring the capacitance change between the capillary of mercury contained in the penetrometers and an outer metal sheath as mercury invades the samples. For pressures up to 24 psia, air pressure was used. Hydraulic oil was used to achieve the higher pressures. No volume corrections for pressure effects were made, since below 24 psia they are negligible, whilst for higher pressures, the penetrometers experiences equal external and internal pressures and mercury compression is offset by penetrometers compression.

All samples were dried in a humidity oven and placed into calibrated glass penetrometers. These consist of a sample chamber and attached precision bore capillary. Once the samples were placed into the penetrometers, a vacuum was applied until less than 50 micrometres of mercury had been achieved. Mercury was then introduced into the penetrometers and the run commenced along predefined pressure points on a logarithmic scale. After equilibration at each pressure point, a capacitance reading was taken which was then converted into an equivalent intrusion volume.

The results of saturation as a function of pressure are presented 'unconformed' and 'conformed'. The conformance correction aims to back out the effects of surface conformance of the mercury into sample surface features, which, if left unconformed, is seen as actual sample penetration. Mercury-Air displacement pressures were estimated by extrapolation of curve plateaus (Schowalter 1979).

Pore throat diameter for intrusion pressure can be calculated as such:

$$D = \frac{4T \cos \theta C}{P_c}$$

where D = pore throat diameter (microns)
 T = interfacial tension (dynes/cm)
 θ = contact angle (degrees)
 P_c = capillary pressure (psi)
 C = conversion constant
 145×10^{-3}

Any apparent inconsistencies between the reported values of Intrusion (percent) and Saturation (percent) are a rounding effect. All intrusion however, cumulates to 100% saturation at maximum pressure.

Calculation of the hydrocarbon column that a given rock pore system can seal is accomplished by using the equation of Smith (1966):

$$H = \frac{(PdB - PdR)}{(\rho_w - \rho_h) \times 0.433}$$

<i>where H</i>	=	<i>maximum vertical hydrocarbon column in feet above the 100% water level that can be sealed</i>
<i>PdB</i>	=	<i>subsurface hydrocarbon-water displacement pressure (psi) of the boundary or sealing bed</i>
<i>PdR</i>	=	<i>subsurface hydrocarbon-water displacement pressure (psi) of the reservoir rock</i>
ρ_w	=	<i>subsurface density (g/cc) of water</i>
ρ_h	=	<i>subsurface density (g/cc) of hydrocarbon</i>
<i>0.433</i>	=	<i>unit's conversion factor</i>

The parameters used to calculate the hydrocarbon column heights all listed in the data report tables.

Definitions:

- Entry pressure is the first pressure interpreted as actual mercury penetration of the sample.
- Displacement pressure as defined by Leverett (1940) is the minimum pressure required for the non-wetting fluid, (oil or gas) to begin displacing the wetting fluid (water) from the largest pores.
- Threshold pressure is deemed where the mercury presents a continuous phase and is interpreted as 10% Hg Saturation.



**QGC – A BG GROUP BUSINESS
MOA-2**

Mercury Injection Capillary Pressure Test Results

**MERCURY INJECTION CAPILLARY PRESSURE
Summary**



Client QGC - A BG Group business

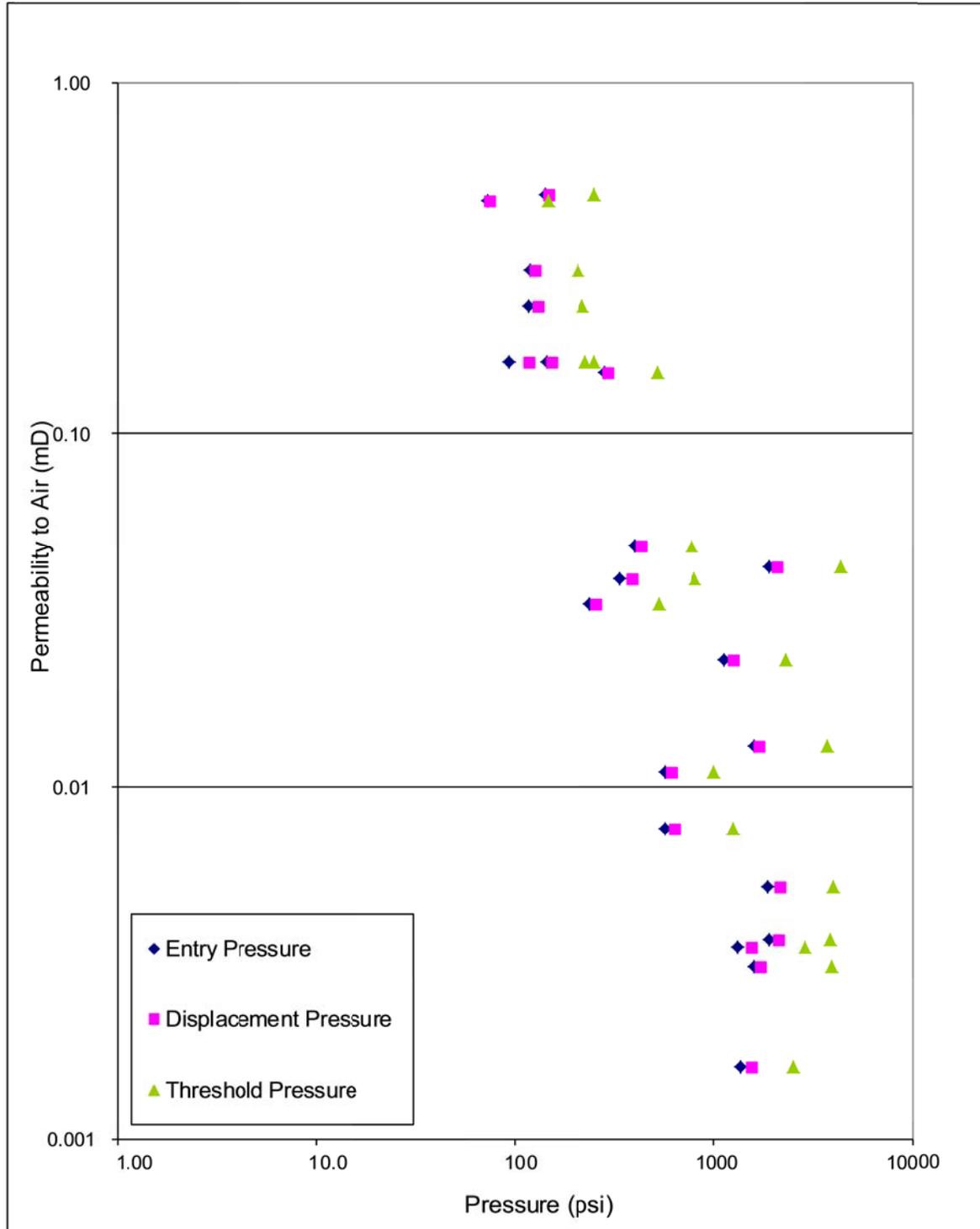
Well Moa-2

Sample	Depth (metres)	Ambient Porosity (%)	Ambient Permeability (mD)	Pore Radius (µm)	Air-Mercury		
					Entry Pressure (psi)	Displacement Pressure (psi)	Threshold Pressure (psi)
R3	3851.45	5.4	0.0035	0.080	1330	1541	2873
S2	3851.49	5.1	0.0016	0.078	1364	1563	2531
R8	3854.47	3.5	0.0076	0.188	566	626	1269
S4	3854.51	3.8	0.033	0.447	238	256	531
R20	3864.45	3.2	0.039	0.313	340	391	807
S8	3864.50	3.6	0.011	0.186	572	607	998
R22	3865.40	7.7	0.48	0.747	142	147	252
S9	3865.52	8.8	0.46	1.45	73.4	74.8	146
R36	3875.60	2.2	0.023	0.093	1144	1269	2301
S14	3875.65	1.6	0.0052	0.057	1867	2153	4028
R44	3883.31	4.2	0.048	0.263	405	432	780
S17	3883.36	4.5	0.15	0.372	286	296	523
R46	3884.46	9.0	0.29	0.887	120	126	209
S18	3884.52	9.2	0.23	0.901	118	130	219
R48	3885.45	8.4	0.16	1.13	94.2	117	228
S19	3885.50	8.1	0.16	0.740	144	153	251
R61	3896.50	2.7	0.042	0.056	1901	2074	4388
S23	3896.55	2.3	0.013	0.066	1613	1704	3745
S24	3897.65	3.4	0.0037	0.056	1901	2117	3851
R63	3897.70	3.5	0.0031	0.066	1613	1721	3974

MERCURY INJECTION CAPILLARY PRESSURE Summary Plot



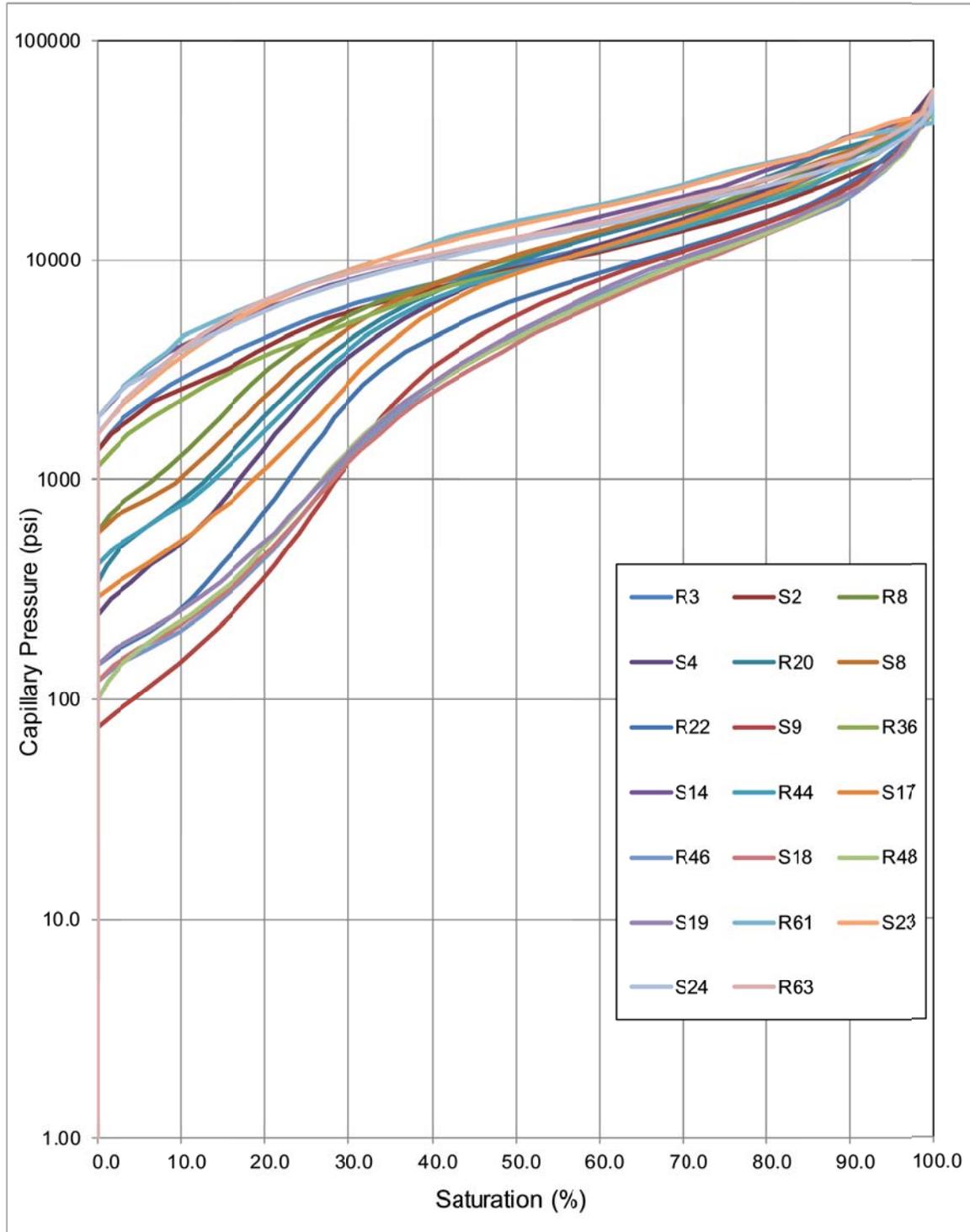
Client QGC - A BG Group business
Well Moa-2



MERCURY INJECTION CAPILLARY PRESSURE Composite Pc Plot



Client QGC - A BG Group business
Well Moa-2



INTERPRETED CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2
Test Method Air/Mercury Capillary Pressure Drainage
Sample R3
Depth 3851.45 m
Ambient Permeability 0.0035 mD
Ambient Porosity 5.4 %
Pore radius 0.08 µm

Pressure Gradients, psi/foot		Conversion Parameters				
		Typical	Laboratory Θ	air/mercury	air/water	air/oil
Water:	0.440	Laboratory IFT	140	0.0	0.0	30.0
Oil:	0.330	Reservoir Θ	480	72.0	24.0	48.0
Gas:	0.100	Reservoir IFT		0.0		30.0
		Laboratory Tcos Θ	367	50.0		30.0
		Reservoir Tcos Θ		72.0	24.0	42.0
				50.0		26.0

System	Entry Pressure (psi)		Displacement Pressure (psi)		Threshold Pressure (psi)	
	Lab	Resv	Lab	Resv	Lab	Resv
A-Hg	1330	-	1541	-	2873	-
G-W	261	181	302	209	563	390
O-W	152	94.3	176	109	328	203

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
1.00	0.0	0.0	0.0	0.0	212	0.20	0.14	0.11	0.07	0.20	0.12
1.16	0.3	0.3	0.0	0.0	183	0.23	0.16	0.13	0.08	0.23	0.14
1.38	0.2	0.6	0.0	0.0	154	0.27	0.19	0.16	0.10	0.27	0.17
1.64	0.3	0.9	0.0	0.0	130	0.32	0.22	0.19	0.12	0.32	0.20
1.94	0.3	1.1	0.0	0.0	109	0.38	0.27	0.22	0.14	0.38	0.24
2.31	0.3	1.4	0.0	0.0	91.7	0.45	0.32	0.26	0.16	0.45	0.28
2.76	0.2	1.6	0.0	0.0	76.9	0.54	0.38	0.32	0.20	0.54	0.34
3.28	0.2	1.8	0.0	0.0	64.6	0.64	0.45	0.38	0.23	0.64	0.40
3.91	0.2	2.0	0.0	0.0	54.3	0.77	0.53	0.45	0.28	0.77	0.48
4.65	0.1	2.1	0.0	0.0	45.6	0.91	0.63	0.53	0.33	0.91	0.57
5.53	0.2	2.2	0.0	0.0	38.3	1.08	0.75	0.63	0.39	1.09	0.67
6.58	0.1	2.4	0.0	0.0	32.2	1.29	0.90	0.75	0.47	1.29	0.80
7.82	0.1	2.5	0.0	0.0	27.1	1.53	1.06	0.90	0.55	1.54	0.95
9.30	0.1	2.6	0.0	0.0	22.8	1.82	1.26	1.06	0.66	1.82	1.13
11.1	0.2	2.8	0.0	0.0	19.2	2.18	1.51	1.27	0.79	2.18	1.35
13.1	0.1	2.9	0.0	0.0	16.1	2.57	1.78	1.50	0.93	2.57	1.60
15.6	0.1	3.0	0.0	0.0	13.6	3.06	2.13	1.79	1.11	3.08	1.91

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
18.6	0.2	3.2	0.0	0.0	11.4	3.65	2.53	2.13	1.32	3.66	2.27
22.1	0.2	3.3	0.0	0.0	9.61	4.34	3.01	2.53	1.57	4.35	2.70
26.2	0.2	3.6	0.0	0.0	8.09	5.14	3.57	3.00	1.86	5.15	3.20
30.0	0.0	3.6	0.0	0.0	7.07	5.89	4.09	3.43	2.12	5.87	3.67
35.2	0.1	3.7	0.0	0.0	6.03	6.91	4.80	4.03	2.49	6.90	4.30
41.4	0.0	3.7	0.0	0.0	5.12	8.12	5.64	4.74	2.93	8.12	5.06
49.9	0.0	3.7	0.0	0.0	4.25	9.79	6.80	5.71	3.53	9.78	6.10
61.5	0.0	3.7	0.0	0.0	3.45	12.1	8.40	7.04	4.36	12.1	7.53
69.8	0.0	3.8	0.0	0.0	3.04	13.7	9.51	7.99	4.95	13.7	8.53
83.6	0.1	3.8	0.0	0.0	2.54	16.4	11.4	9.57	5.92	16.4	10.2
101	0.1	3.9	0.0	0.0	2.11	19.8	13.8	11.6	7.18	19.9	12.4
119	0.1	4.1	0.0	0.0	1.78	23.3	16.2	13.6	8.42	23.3	14.5
144	0.2	4.2	0.0	0.0	1.47	28.3	19.7	16.5	10.2	28.3	17.7
170	0.1	4.4	0.0	0.0	1.25	33.4	23.2	19.5	12.1	33.5	20.8
204	0.2	4.5	0.0	0.0	1.04	40.0	27.8	23.3	14.4	39.9	24.9
243	0.2	4.7	0.0	0.0	0.873	47.7	33.1	27.8	17.2	47.7	29.7
288	0.2	4.9	0.0	0.0	0.736	56.5	39.2	33.0	20.4	56.5	35.1
343	0.2	5.1	0.0	0.0	0.618	67.3	46.7	39.3	24.3	67.3	41.9
407	0.2	5.3	0.0	0.0	0.521	79.8	55.4	46.6	28.8	79.8	49.7
488	0.3	5.6	0.0	0.0	0.434	95.7	66.5	55.8	34.5	95.6	59.6
578	0.3	5.9	0.0	0.0	0.367	113	78.5	66.1	40.9	113	70.4
688	0.4	6.2	0.0	0.0	0.308	135	93.8	78.7	48.7	135	84.1
816	0.5	6.8	0.0	0.0	0.260	160	111	93.4	57.8	160	99.5
967	0.6	7.4	0.0	0.0	0.219	190	132	111	68.7	190	118
1149	0.8	8.2	0.0	0.0	0.184	225	156	131	81.1	225	140
1365	0.9	9.2	0.0	0.0	0.155	268	186	156	96.6	268	167
1620	1.3	10.5	1.4	1.4	0.131	318	221	185	115	319	198
1924	1.6	12.1	1.8	3.2	0.110	377	262	220	136	377	235
2287	2.4	14.5	2.7	5.9	0.0927	449	312	262	162	449	280
2716	2.6	17.1	2.9	8.8	0.0780	533	370	311	193	535	332
3227	3.2	20.4	3.6	12.3	0.0657	633	440	369	228	632	394
3832	3.6	23.9	3.9	16.3	0.0553	752	522	439	272	754	468
4549	4.1	28.0	4.5	20.7	0.0466	892	619	521	323	895	555
5404	4.2	32.3	4.7	25.4	0.0392	1060	736	618	383	1061	660
6418	5.2	37.5	5.8	31.2	0.0330	1259	874	734	454	1258	784

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
7622	7.0	44.5	7.7	38.9	0.0278	1495	1038	872	540	1496	931
9052	8.1	52.6	8.9	47.8	0.0234	1776	1233	1036	641	1776	1105
10750	7.5	60.0	8.2	56.0	0.0197	2109	1465	1230	761	2109	1313
12766	7.3	67.3	8.1	64.0	0.0166	2505	1740	1461	904	2505	1560
15163	7.4	74.7	8.1	72.1	0.0140	2975	2066	1735	1074	2976	1852
18007	5.4	80.1	6.0	78.1	0.0118	3533	2453	2061	1276	3536	2199
21381	4.1	84.3	4.6	82.7	0.0099	4195	2913	2447	1515	4198	2611
25397	4.2	88.5	4.6	87.3	0.0083	4983	3460	2906	1799	4985	3102
30161	3.2	91.7	3.6	90.8	0.0070	5917	4109	3452	2137	5921	3684
35822	4.5	96.2	5.0	95.8	0.0059	7028	4881	4100	2538	7033	4376
42537	2.6	98.8	2.9	98.7	0.0050	8345	5795	4868	3014	8352	5195
46878	0.8	99.7	0.9	99.6	0.0045	9197	6387	5365	3321	9202	5726
59951	0.3	100.0	0.4	100.0	0.0035	11762	8168	6861	4247	11768	7322

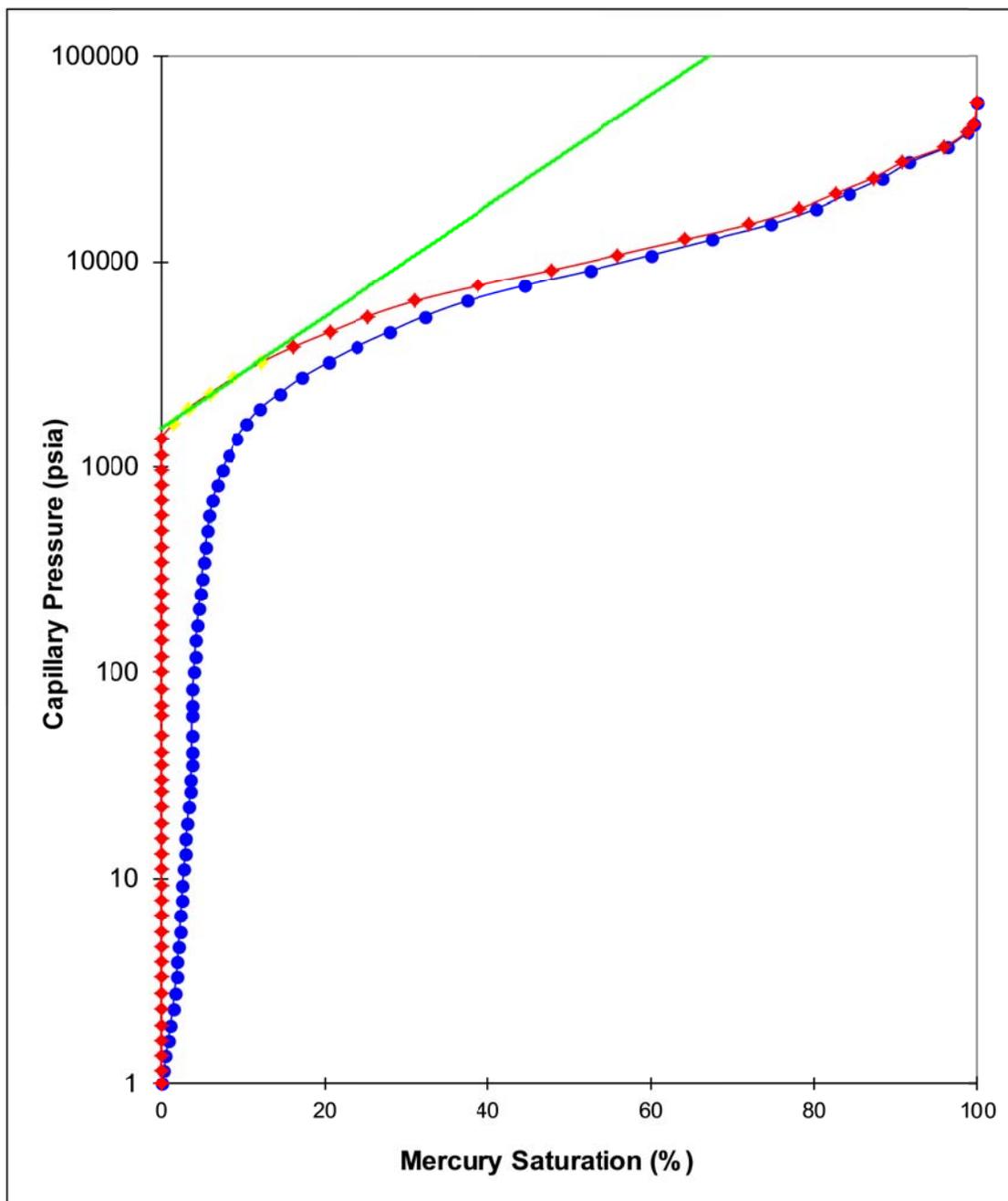
CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample R3 **Ambient Permeability** 0.0035 mD
Depth 3851.45 m **Ambient Porosity** 5.4 %



PORE SIZE DISTRIBUTION

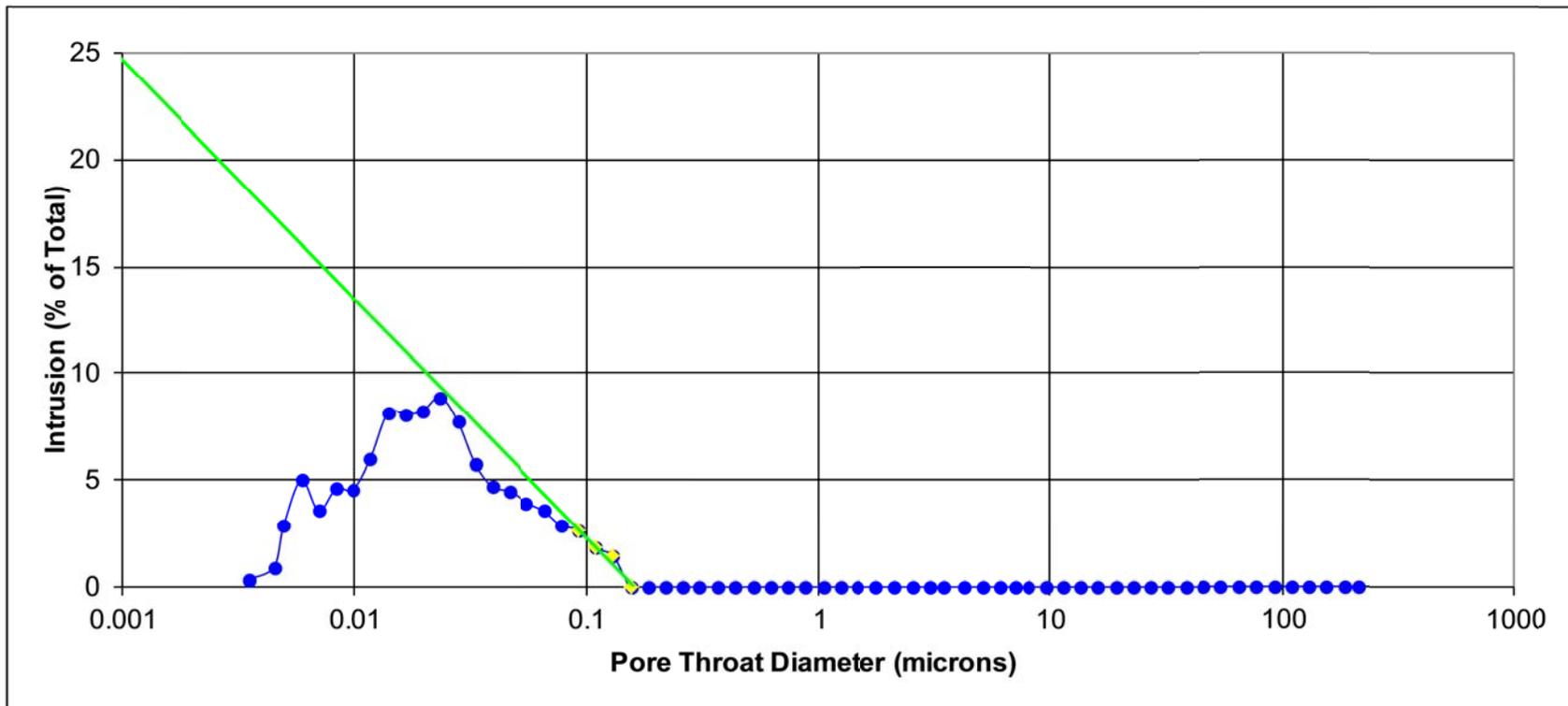


Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample R3
Depth 3851.45 m

Ambient Permeability 0.0035 mD
Ambient Porosity 5.4 %



Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
18.6	0.3	2.5	0.0	0.0	11.4	3.65	2.53	2.13	1.32	3.66	2.27
22.1	0.1	2.6	0.0	0.0	9.61	4.34	3.01	2.53	1.57	4.35	2.70
26.2	0.2	2.8	0.0	0.0	8.09	5.14	3.57	3.00	1.86	5.15	3.20
30.0	0.3	3.1	0.0	0.0	7.07	5.89	4.09	3.43	2.12	5.87	3.67
35.3	0.2	3.4	0.0	0.0	6.00	6.93	4.81	4.04	2.50	6.93	4.31
40.8	0.1	3.4	0.0	0.0	5.19	8.00	5.56	4.67	2.89	8.01	4.98
49.4	0.1	3.6	0.0	0.0	4.29	9.69	6.73	5.65	3.50	9.70	6.03
58.5	0.0	3.6	0.0	0.0	3.62	11.5	7.99	6.69	4.14	11.5	7.16
70.5	0.0	3.6	0.0	0.0	3.01	13.8	9.58	8.07	5.00	13.9	8.59
84.5	0.1	3.7	0.0	0.0	2.51	16.6	11.5	9.67	5.99	16.6	10.3
99.7	0.0	3.7	0.0	0.0	2.13	19.6	13.6	11.4	7.06	19.6	12.2
121	0.1	3.8	0.0	0.0	1.75	23.7	16.5	13.8	8.54	23.7	14.8
144	0.1	3.9	0.0	0.0	1.47	28.3	19.7	16.5	10.2	28.3	17.7
169	0.1	4.0	0.0	0.0	1.26	33.2	23.1	19.3	11.9	33.0	20.7
203	0.2	4.2	0.0	0.0	1.05	39.8	27.6	23.2	14.4	39.9	24.7
242	0.2	4.4	0.0	0.0	0.876	47.5	33.0	27.7	17.1	47.4	29.6
286	0.2	4.5	0.0	0.0	0.741	56.1	39.0	32.7	20.2	56.0	35.0
343	0.2	4.8	0.0	0.0	0.618	67.3	46.7	39.3	24.3	67.3	41.9
407	0.2	4.9	0.0	0.0	0.521	79.8	55.4	46.6	28.8	79.8	49.7
486	0.3	5.2	0.0	0.0	0.436	95.3	66.2	55.6	34.4	95.3	59.3
578	0.2	5.4	0.0	0.0	0.367	113	78.5	66.1	40.9	113	70.4
684	0.3	5.7	0.0	0.0	0.310	134	93.1	78.3	48.5	134	83.5
813	0.3	6.1	0.0	0.0	0.261	159	110	93.0	57.6	160	98.6
967	0.5	6.6	0.0	0.0	0.219	190	132	111	68.7	190	118
1148	0.7	7.3	0.0	0.0	0.185	225	156	131	81.1	225	140
1366	1.4	8.7	0.0	0.0	0.155	268	186	156	96.6	268	167
1620	1.4	10.1	1.6	1.6	0.131	318	221	185	115	319	198
1925	2.5	12.6	2.7	4.3	0.110	378	263	220	136	377	236
2288	2.3	14.9	2.5	6.8	0.0927	449	312	262	162	449	280
2718	4.0	18.9	4.4	11.2	0.0780	533	370	311	193	535	332
3227	4.1	23.0	4.5	15.7	0.0657	633	440	369	228	632	394
3832	3.1	26.1	3.4	19.1	0.0553	752	522	439	272	754	468
4550	3.4	29.5	3.7	22.8	0.0466	893	620	521	323	895	556
5404	4.1	33.6	4.5	27.3	0.0392	1060	736	618	383	1061	660
6417	6.1	39.7	6.7	34.0	0.0330	1259	874	734	454	1258	784

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
7622	7.0	46.7	7.7	41.7	0.0278	1495	1038	872	540	1496	931
9051	7.2	53.9	7.9	49.5	0.0234	1776	1233	1036	641	1776	1105
10750	9.1	63.0	10.0	59.5	0.0197	2109	1465	1230	761	2109	1313
12767	7.1	70.2	7.8	67.3	0.0166	2505	1740	1461	904	2505	1560
15162	6.7	76.9	7.3	74.7	0.0140	2975	2066	1735	1074	2976	1852
18007	5.8	82.7	6.4	81.0	0.0118	3533	2453	2061	1276	3536	2199
21386	5.0	87.6	5.4	86.4	0.0099	4196	2914	2447	1515	4198	2612
25399	4.3	91.9	4.7	91.2	0.0083	4983	3460	2907	1800	4988	3102
30163	4.1	96.1	4.5	95.7	0.0070	5918	4110	3452	2137	5921	3684
35814	1.4	97.5	1.5	97.2	0.0059	7026	4879	4099	2537	7030	4374
42521	1.7	99.2	1.9	99.1	0.0050	8342	5793	4866	3012	8346	5193
46873	0.6	99.7	0.6	99.7	0.0045	9196	6386	5364	3321	9202	5725
59940	0.3	100.0	0.3	100.0	0.0035	11759	8166	6860	4247	11768	7321

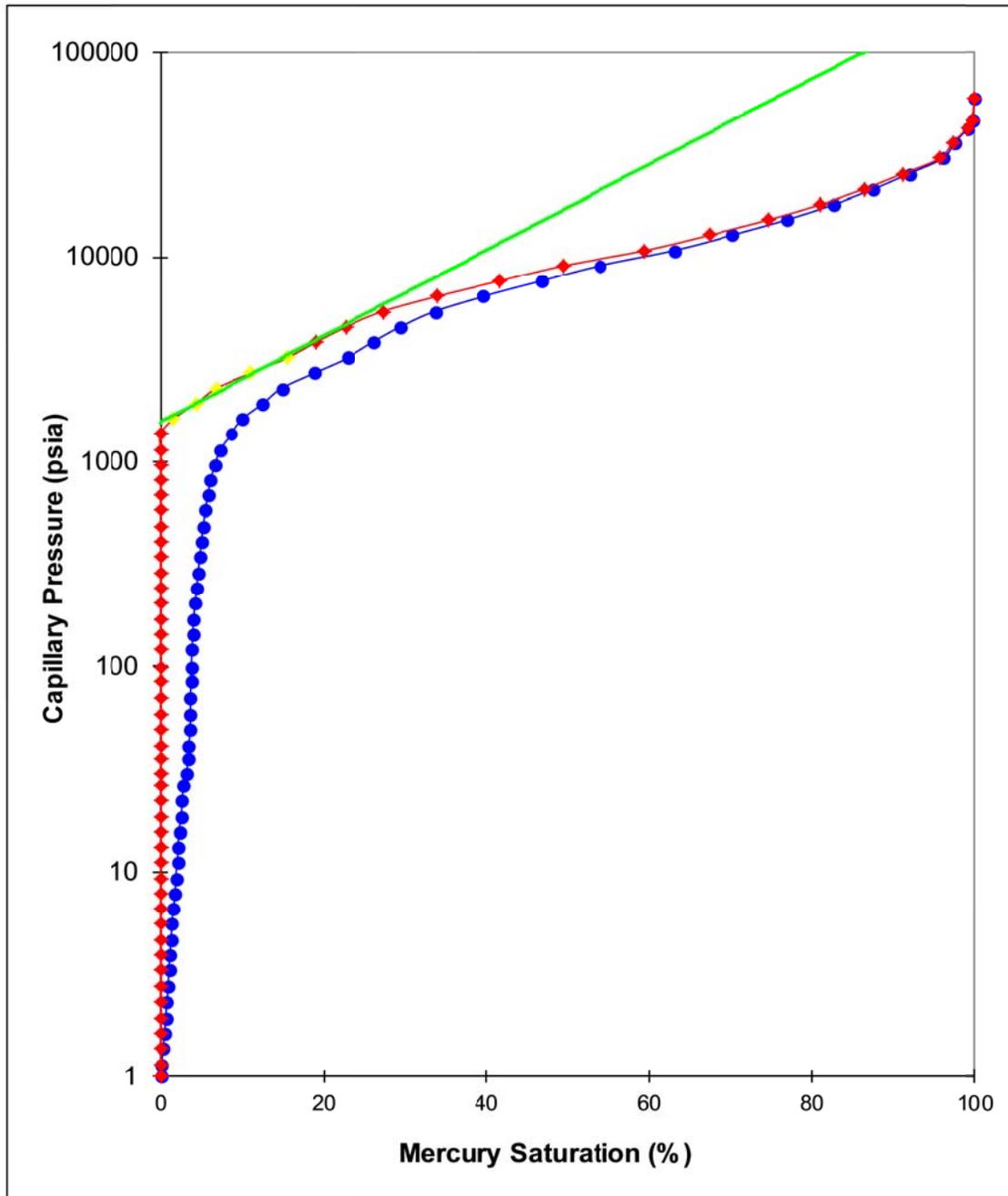
CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample S2 **Ambient Permeability** 0.0016 mD
Depth 3851.49 m **Ambient Porosity** 5.1 %



PORE SIZE DISTRIBUTION

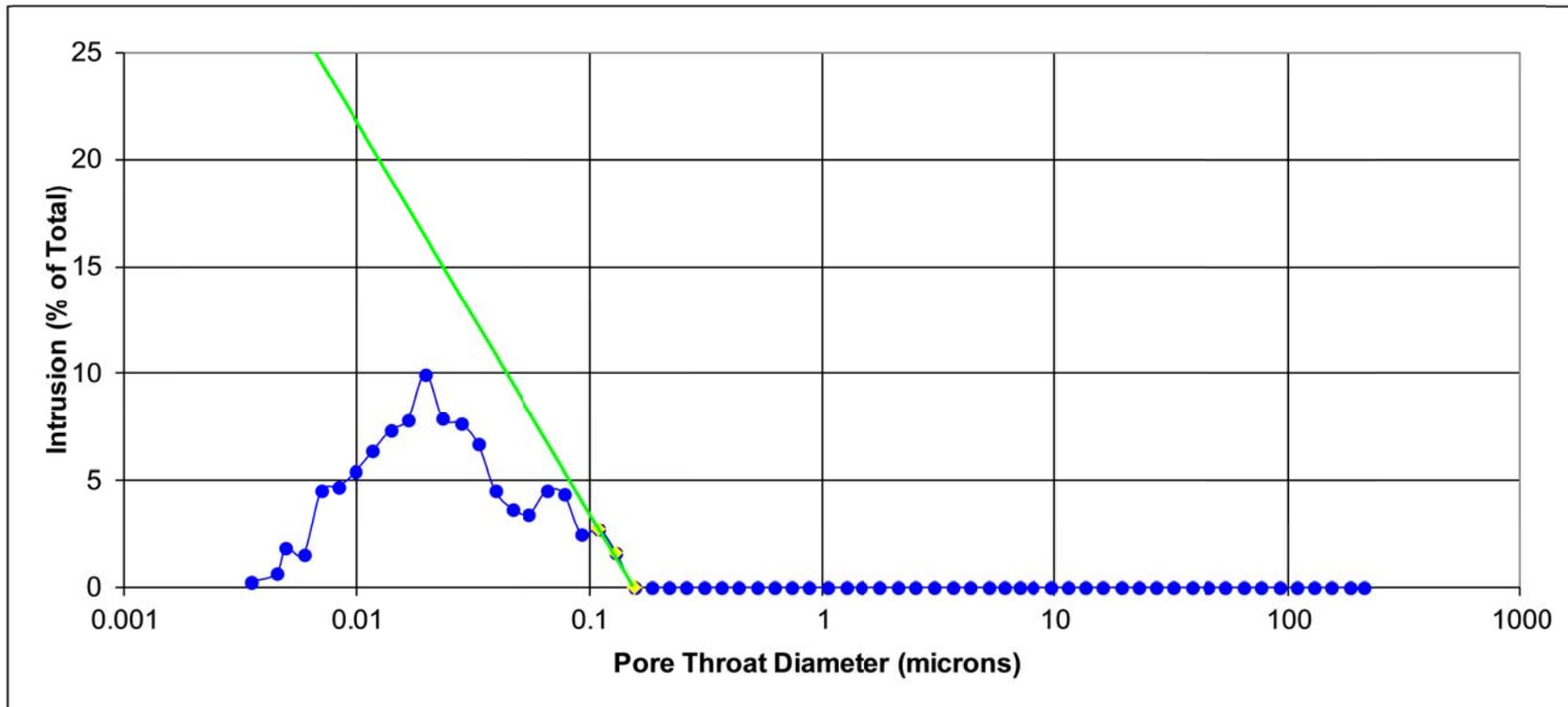


Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample S2
Depth 3851.49 m

Ambient Permeability 0.0016 mD
Ambient Porosity 5.1 %



INTERPRETED CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2
Test Method Air/Mercury Capillary Pressure Drainage
Sample R8
Depth 3854.47 m
Ambient Permeability 0.0076 mD
Ambient Porosity 3.5 %
Pore radius 0.19 µm

Pressure Gradients, psi/foot		Conversion Parameters				
	Typical		air/mercury	air/water	air/oil	oil/water
Water:	0.440	Laboratory Θ	140	0.0	0.0	30.0
Oil:	0.330	Laboratory IFT	480	72.0	24.0	48.0
Gas:	0.100	Reservoir Θ		0.0		30.0
		Reservoir IFT		50.0		30.0
		Laboratory Tcos Θ	367	72.0	24.0	42.0
		Reservoir Tcos Θ		50.0		26.0
		Entry Pressure (psi)	Displacement Pressure (psi)		Threshold Pressure (psi)	
System	Lab	Resv	Lab	Resv	Lab	Resv
A-Hg	566	-	626	-	1269	-
G-W	111	77.1	123	85.4	249	173
O-W	64.8	40.1	71.7	44.4	145	89.8

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
1.00	0.0	0.0	0.0	0.0	212	0.20	0.14	0.11	0.07	0.20	0.12
1.15	0.1	0.1	0.0	0.0	184	0.23	0.16	0.13	0.08	0.23	0.14
1.37	0.2	0.3	0.0	0.0	155	0.27	0.19	0.16	0.10	0.27	0.17
1.63	0.2	0.5	0.0	0.0	130	0.32	0.22	0.19	0.12	0.32	0.20
1.94	0.2	0.7	0.0	0.0	109	0.38	0.27	0.22	0.14	0.38	0.24
2.31	0.2	0.9	0.0	0.0	91.7	0.45	0.32	0.26	0.16	0.45	0.28
2.76	0.2	1.1	0.0	0.0	76.9	0.54	0.38	0.32	0.20	0.54	0.34
3.28	0.2	1.3	0.0	0.0	64.6	0.64	0.45	0.38	0.23	0.64	0.40
3.91	0.2	1.4	0.0	0.0	54.2	0.77	0.53	0.45	0.28	0.77	0.48
4.65	0.2	1.6	0.0	0.0	45.6	0.91	0.63	0.53	0.33	0.91	0.57
5.53	0.1	1.8	0.0	0.0	38.3	1.08	0.75	0.63	0.39	1.09	0.67
6.58	0.2	1.9	0.0	0.0	32.2	1.29	0.90	0.75	0.47	1.29	0.80
7.82	0.2	2.1	0.0	0.0	27.1	1.53	1.06	0.90	0.55	1.54	0.95
9.30	0.1	2.2	0.0	0.0	22.8	1.82	1.26	1.06	0.66	1.82	1.13
11.1	0.2	2.4	0.0	0.0	19.2	2.18	1.51	1.27	0.79	2.18	1.35
13.1	0.2	2.6	0.0	0.0	16.1	2.57	1.78	1.50	0.93	2.57	1.60
15.6	0.2	2.9	0.0	0.0	13.6	3.06	2.13	1.79	1.11	3.08	1.91

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
18.6	0.2	3.1	0.0	0.0	11.4	3.65	2.53	2.13	1.32	3.66	2.27
22.1	0.3	3.4	0.0	0.0	9.61	4.34	3.01	2.53	1.57	4.35	2.70
26.2	0.3	3.7	0.0	0.0	8.09	5.14	3.57	3.00	1.86	5.15	3.20
30.0	0.3	3.9	0.0	0.0	7.07	5.89	4.09	3.43	2.12	5.87	3.67
35.4	0.1	4.0	0.0	0.0	5.98	6.94	4.82	4.05	2.51	6.95	4.32
42.9	0.1	4.1	0.0	0.0	4.94	8.42	5.85	4.91	3.04	8.42	5.24
51.4	0.1	4.2	0.0	0.0	4.12	10.1	7.01	5.88	3.64	10.1	6.28
60.8	0.4	4.6	0.0	0.0	3.49	11.9	8.26	6.96	4.31	11.9	7.40
70.5	0.1	4.7	0.0	0.0	3.01	13.8	9.58	8.07	5.00	13.9	8.59
84.4	0.2	4.8	0.0	0.0	2.51	16.6	11.5	9.66	5.98	16.6	10.3
101	0.2	5.0	0.0	0.0	2.10	19.8	13.8	11.6	7.18	19.9	12.4
120	0.2	5.2	0.0	0.0	1.77	23.5	16.3	13.7	8.48	23.5	14.6
142	0.2	5.4	0.0	0.0	1.49	27.9	19.4	16.3	10.1	28.0	17.4
171	0.3	5.7	0.0	0.0	1.24	33.5	23.3	19.6	12.1	33.5	20.9
205	0.3	6.0	0.0	0.0	1.04	40.2	27.9	23.5	14.5	40.2	25.0
242	0.3	6.3	0.0	0.0	0.877	47.5	33.0	27.7	17.1	47.4	29.6
287	0.4	6.7	0.0	0.0	0.738	56.3	39.1	32.8	20.3	56.2	35.1
341	0.4	7.1	0.0	0.0	0.621	66.9	46.5	39.0	24.1	66.8	41.7
410	0.5	7.6	0.0	0.0	0.517	80.4	55.8	46.9	29.0	80.4	50.0
484	0.7	8.3	0.0	0.0	0.438	95.0	66.0	55.4	34.3	95.0	59.2
578	1.1	9.4	0.0	0.0	0.367	113	78.5	66.1	40.9	113	70.4
685	1.3	10.7	1.4	1.4	0.310	134	93.1	78.4	48.5	134	83.5
813	1.7	12.4	1.9	3.4	0.261	159	110	93.0	57.6	160	98.6
969	2.7	15.1	3.0	6.4	0.219	190	132	111	68.7	190	118
1148	2.0	17.1	2.2	8.5	0.185	225	156	131	81.1	225	140
1367	2.0	19.1	2.2	10.8	0.155	268	186	156	96.6	268	167
1620	1.7	20.8	1.8	12.6	0.131	318	221	185	115	319	198
1926	1.8	22.6	2.0	14.6	0.110	378	263	220	136	377	236
2287	1.6	24.2	1.8	16.4	0.0927	449	312	262	162	449	280
2716	1.8	26.1	2.0	18.4	0.0781	533	370	311	193	535	332
3227	2.0	28.1	2.2	20.6	0.0657	633	440	369	228	632	394
3832	2.3	30.4	2.6	23.2	0.0553	752	522	439	272	754	468
4544	2.4	32.8	2.6	25.8	0.0467	891	619	520	322	892	555
5402	3.2	36.0	3.5	29.4	0.0392	1060	736	618	383	1061	660
6417	3.8	39.8	4.2	33.5	0.0330	1259	874	734	454	1258	784

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
7623	5.2	45.0	5.7	39.3	0.0278	1496	1039	872	540	1496	931
9053	5.4	50.4	6.0	45.2	0.0234	1776	1233	1036	641	1776	1105
10750	6.1	56.4	6.7	51.9	0.0197	2109	1465	1230	761	2109	1313
12767	6.7	63.1	7.4	59.3	0.0166	2505	1740	1461	904	2505	1560
15163	6.4	69.5	7.0	66.3	0.0140	2975	2066	1735	1074	2976	1852
18007	7.1	76.5	7.8	74.1	0.0118	3533	2453	2061	1276	3536	2199
21383	5.0	81.6	5.6	79.7	0.0099	4195	2913	2447	1515	4198	2611
25395	4.7	86.3	5.2	84.9	0.0083	4982	3460	2906	1799	4985	3102
30162	5.0	91.3	5.5	90.4	0.0070	5917	4109	3452	2137	5921	3684
35820	4.3	95.6	4.8	95.2	0.0059	7027	4880	4099	2537	7030	4375
42530	3.0	98.6	3.4	98.5	0.0050	8344	5794	4867	3013	8349	5194
46882	1.1	99.8	1.2	99.7	0.0045	9198	6388	5365	3321	9202	5727
59950	0.2	100.0	0.3	100.0	0.0035	11761	8167	6861	4247	11768	7321

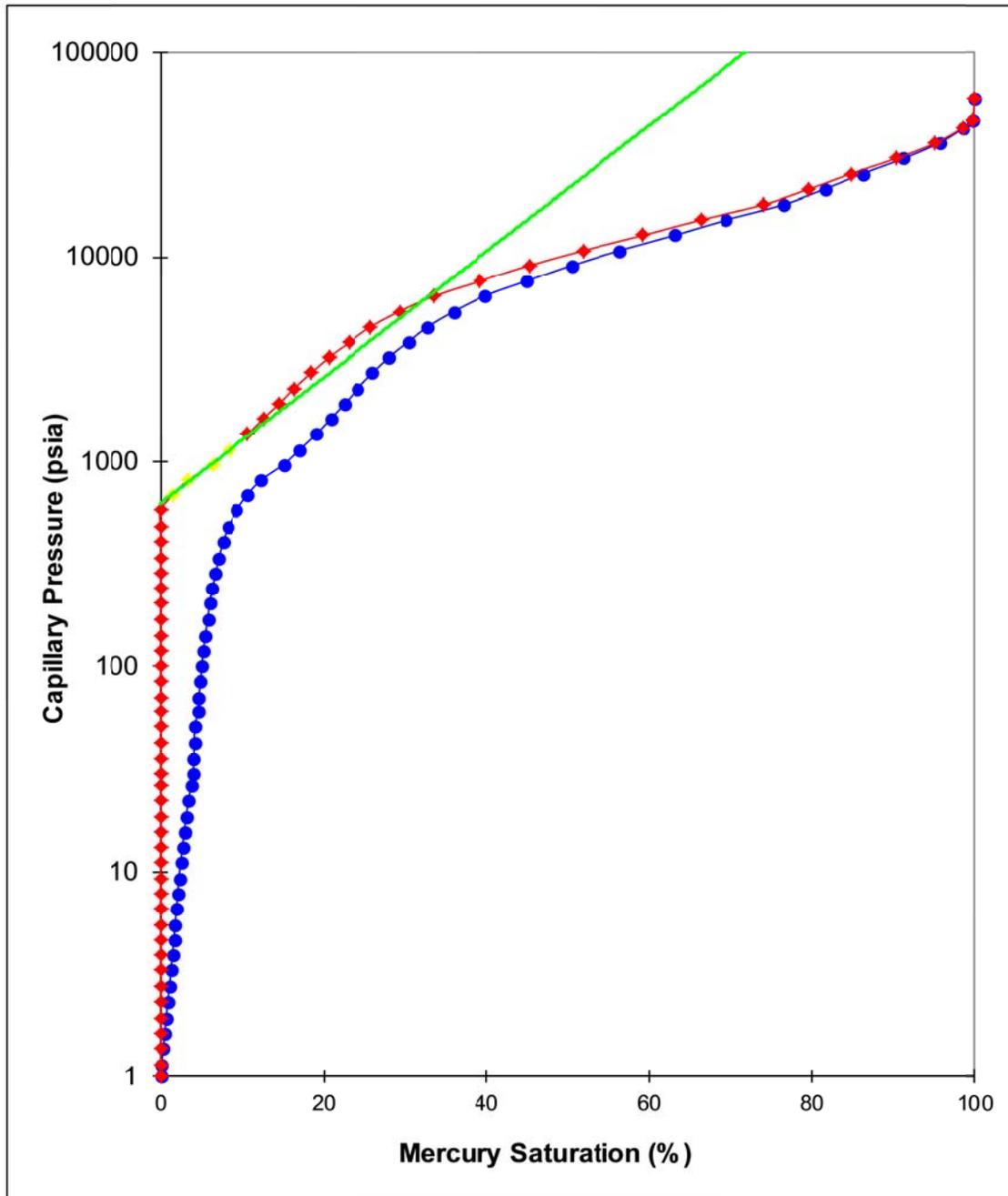
CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample R8 **Ambient Permeability** 0.0076 mD
Depth 3854.47 m **Ambient Porosity** 3.5 %



PORE SIZE DISTRIBUTION

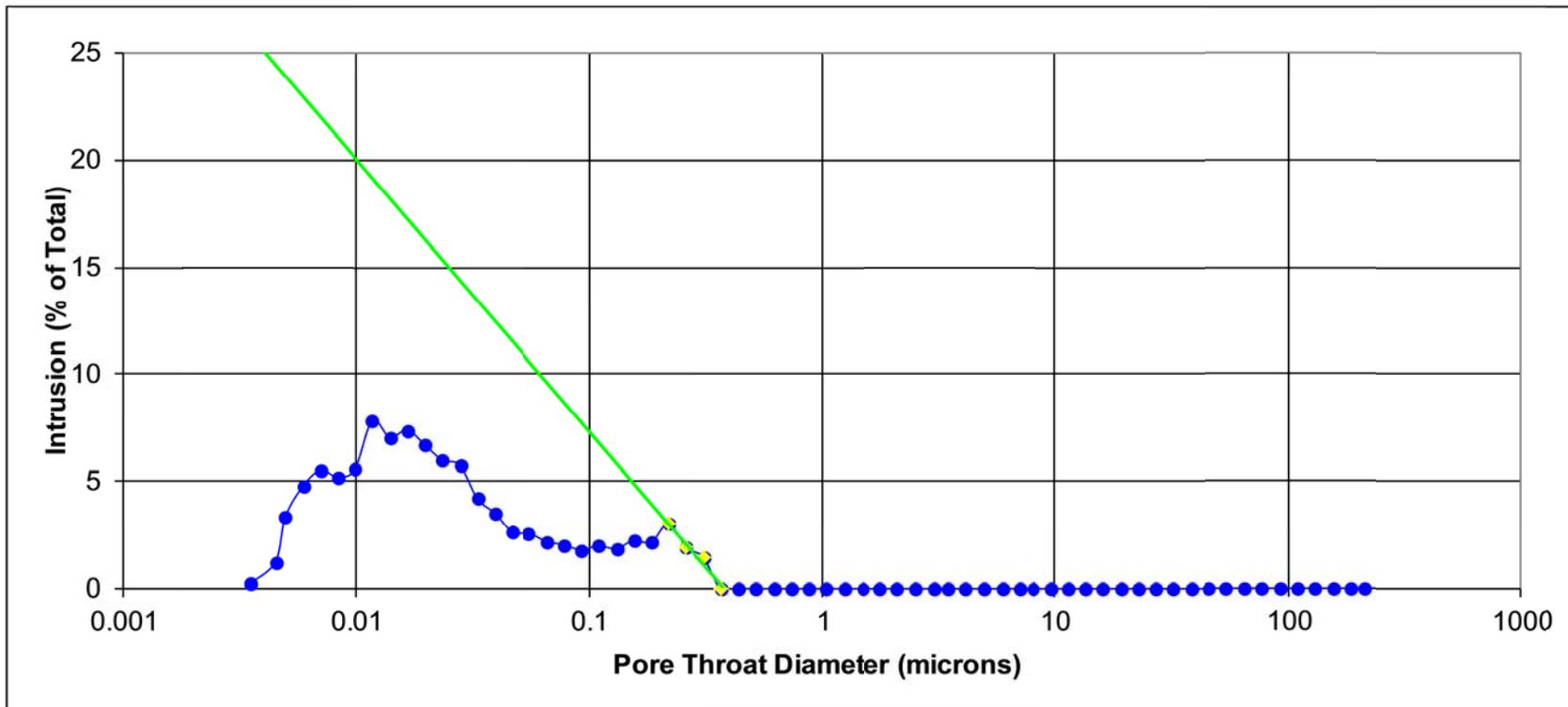


Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample R8
Depth 3854.47 m

Ambient Permeability 0.0076 mD
Ambient Porosity 3.5 %



INTERPRETED CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2
Test Method Air/Mercury Capillary Pressure Drainage
Sample S4
Depth 3854.51 m
Ambient Permeability 0.033 mD
Ambient Porosity 3.8 %
Pore radius 0.45 µm

Pressure Gradients, psi/foot		Conversion Parameters				
		Typical	Laboratory Θ	air/mercury	air/water	air/oil
Water:	0.440	Laboratory IFT	140	0.0	0.0	30.0
Oil:	0.330	Reservoir Θ	480	72.0	24.0	48.0
Gas:	0.100	Laboratory Tcos Θ		0.0		30.0
		Reservoir IFT		50.0		30.0
		Laboratory Tcos Θ	367	72.0	24.0	42.0
		Reservoir Tcos Θ		50.0		26.0
		Entry Pressure (psi)	Displacement Pressure (psi)		Threshold Pressure (psi)	
System	Lab	Resv	Lab	Resv	Lab	Resv
A-Hg	238	-	256	-	531	-
G-W	46.7	32.4	50.2	34.8	104	72.1
O-W	27.2	16.9	29.3	18.2	60.8	37.8

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
1.00	0.0	0.0	0.0	0.0	212	0.20	0.14	0.11	0.07	0.20	0.12
1.16	0.1	0.1	0.0	0.0	183	0.23	0.16	0.13	0.08	0.23	0.14
1.38	0.3	0.4	0.0	0.0	154	0.27	0.19	0.16	0.10	0.27	0.17
1.64	0.2	0.5	0.0	0.0	130	0.32	0.22	0.19	0.12	0.32	0.20
1.94	0.1	0.7	0.0	0.0	109	0.38	0.27	0.22	0.14	0.38	0.24
2.32	0.2	0.8	0.0	0.0	91.6	0.46	0.32	0.27	0.17	0.46	0.28
2.76	0.1	0.9	0.0	0.0	76.9	0.54	0.38	0.32	0.20	0.54	0.34
3.29	0.1	1.0	0.0	0.0	64.5	0.65	0.45	0.38	0.23	0.65	0.40
3.91	0.1	1.2	0.0	0.0	54.2	0.77	0.53	0.45	0.28	0.77	0.48
4.65	0.1	1.3	0.0	0.0	45.6	0.91	0.63	0.53	0.33	0.91	0.57
5.53	0.1	1.4	0.0	0.0	38.3	1.08	0.75	0.63	0.39	1.09	0.67
6.58	0.1	1.5	0.0	0.0	32.2	1.29	0.90	0.75	0.47	1.29	0.80
7.82	0.1	1.6	0.0	0.0	27.1	1.53	1.06	0.90	0.55	1.54	0.95
9.30	0.1	1.7	0.0	0.0	22.8	1.82	1.26	1.06	0.66	1.82	1.13
11.1	0.2	1.9	0.0	0.0	19.2	2.18	1.51	1.27	0.79	2.18	1.35
13.1	0.4	2.3	0.0	0.0	16.1	2.57	1.78	1.50	0.93	2.57	1.60
15.6	0.3	2.6	0.0	0.0	13.6	3.06	2.13	1.79	1.11	3.08	1.91

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
18.6	0.3	2.8	0.0	0.0	11.4	3.65	2.53	2.13	1.32	3.66	2.27
22.1	0.3	3.1	0.0	0.0	9.61	4.34	3.01	2.53	1.57	4.35	2.70
26.2	0.4	3.5	0.0	0.0	8.09	5.14	3.57	3.00	1.86	5.15	3.20
30.0	0.3	3.7	0.0	0.0	7.07	5.89	4.09	3.43	2.12	5.87	3.67
34.5	0.0	3.7	0.0	0.0	6.15	6.77	4.70	3.95	2.45	6.79	4.21
42.1	0.0	3.8	0.0	0.0	5.04	8.26	5.74	4.82	2.98	8.26	5.15
50.8	0.1	3.8	0.0	0.0	4.18	9.97	6.92	5.81	3.60	9.98	6.20
59.8	0.1	3.9	0.0	0.0	3.54	11.7	8.13	6.84	4.23	11.7	7.29
71.1	0.1	4.1	0.0	0.0	2.98	13.9	9.65	8.14	5.04	14.0	8.65
83.4	0.2	4.3	0.0	0.0	2.54	16.4	11.4	9.54	5.91	16.4	10.2
101	0.2	4.5	0.0	0.0	2.09	19.8	13.8	11.6	7.18	19.9	12.4
120	0.3	4.7	0.0	0.0	1.77	23.5	16.3	13.7	8.48	23.5	14.6
143	0.3	5.1	0.0	0.0	1.49	28.1	19.5	16.4	10.2	28.3	17.5
169	0.5	5.6	0.0	0.0	1.26	33.2	23.1	19.3	11.9	33.0	20.7
204	0.8	6.4	0.0	0.0	1.04	40.0	27.8	23.3	14.4	39.9	24.9
240	1.1	7.5	0.0	0.0	0.883	47.1	32.7	27.5	17.0	47.1	29.3
287	1.5	9.0	1.6	1.6	0.737	56.3	39.1	32.8	20.3	56.2	35.1
342	2.2	11.1	2.4	4.0	0.620	67.1	46.6	39.1	24.2	67.1	41.8
408	2.2	13.4	2.4	6.4	0.520	80.0	55.6	46.7	28.9	80.1	49.8
483	2.5	15.9	2.7	9.1	0.439	94.8	65.8	55.3	34.2	94.8	59.0
575	2.3	18.2	2.5	11.5	0.369	113	78.5	65.8	40.7	113	70.4
685	1.8	20.0	1.9	13.5	0.310	134	93.1	78.4	48.5	134	83.5
814	1.6	21.5	1.7	15.2	0.260	160	111	93.2	57.7	160	99.5
972	1.4	23.0	1.6	16.7	0.218	191	133	111	68.7	190	119
1149	1.4	24.4	1.5	18.2	0.185	225	156	131	81.1	225	140
1364	1.4	25.8	1.5	19.8	0.155	268	186	156	96.6	268	167
1621	1.4	27.2	1.5	21.3	0.131	318	221	186	115	319	198
1925	1.5	28.7	1.7	23.0	0.110	378	263	220	136	377	236
2286	1.6	30.4	1.8	24.7	0.0927	448	311	262	162	449	279
2717	1.6	32.0	1.8	26.5	0.0780	533	370	311	193	535	332
3226	1.8	33.8	1.9	28.4	0.0657	633	440	369	228	632	394
3832	2.3	36.0	2.4	30.9	0.0553	752	522	439	272	754	468
4549	2.6	38.6	2.8	33.6	0.0466	892	619	521	323	895	555
5402	2.8	41.4	3.1	36.7	0.0392	1060	736	618	383	1061	660
6418	3.3	44.8	3.6	40.3	0.0330	1259	874	734	454	1258	784

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
7621	3.9	48.7	4.2	44.5	0.0278	1495	1038	872	540	1496	931
9051	5.6	54.3	6.1	50.6	0.0234	1776	1233	1036	641	1776	1105
10749	5.6	59.9	6.0	56.7	0.0197	2109	1465	1230	761	2109	1313
12766	5.9	65.9	6.4	63.1	0.0166	2505	1740	1461	904	2505	1560
15162	5.8	71.7	6.3	69.4	0.0140	2975	2066	1735	1074	2976	1852
18006	5.7	77.4	6.2	75.6	0.0118	3533	2453	2061	1276	3536	2199
21385	4.8	82.3	5.2	80.8	0.0099	4195	2913	2447	1515	4198	2611
25398	4.7	86.9	5.0	85.9	0.0083	4983	3460	2907	1800	4988	3102
30162	3.6	90.5	3.9	89.7	0.0070	5917	4109	3452	2137	5921	3684
35815	3.1	93.6	3.3	93.0	0.0059	7026	4879	4099	2537	7030	4374
42528	3.2	96.8	3.5	96.5	0.0050	8343	5794	4867	3013	8349	5194
46869	1.3	98.1	1.4	97.9	0.0045	9195	6385	5364	3321	9202	5724
59944	1.9	100.0	2.1	100.0	0.0035	11760	8167	6860	4247	11768	7321

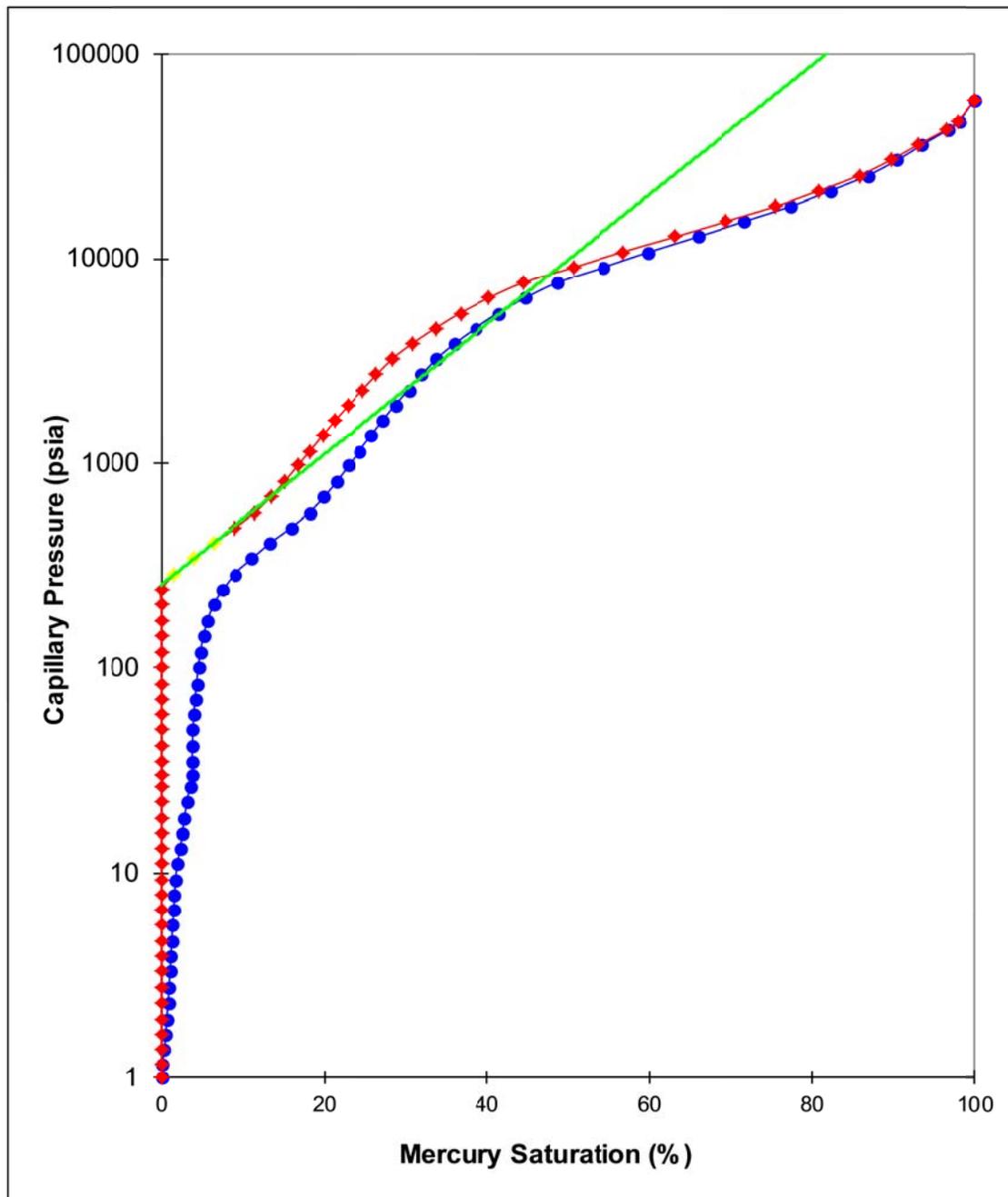
CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample S4 **Ambient Permeability** 0.033 mD
Depth 3854.51 m **Ambient Porosity** 3.8 %



PORE SIZE DISTRIBUTION

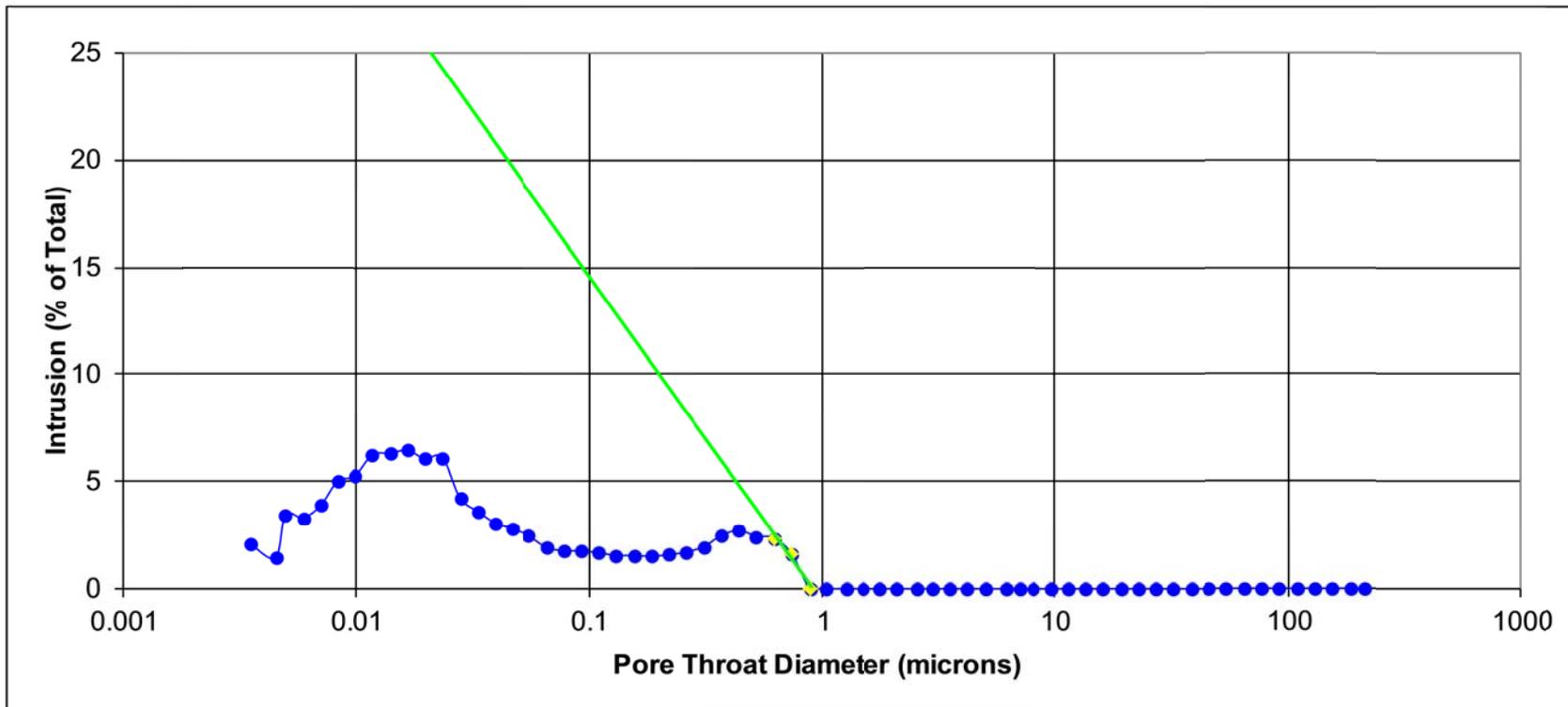


Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample S4
Depth 3854.51 m

Ambient Permeability 0.033 mD
Ambient Porosity 3.8 %



INTERPRETED CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2
Test Method Air/Mercury Capillary Pressure Drainage
Sample R20
Depth 3864.45 m
Ambient Permeability 0.039 mD
Ambient Porosity 3.2 %
Pore radius 0.31 μm

Pressure Gradients, psi/foot		Conversion Parameters				
	Typical		air/mercury	air/water	air/oil	oil/water
Water:	0.440	Laboratory Θ	140	0.0	0.0	30.0
Oil:	0.330	Laboratory IFT	480	72.0	24.0	48.0
Gas:	0.100	Reservoir Θ		0.0		30.0
		Reservoir IFT		50.0		30.0
		Laboratory Tcos Θ	367	72.0	24.0	42.0
		Reservoir Tcos Θ		50.0		26.0
		Entry Pressure (psi)	Displacement Pressure (psi)		Threshold Pressure (psi)	
System	Lab	Resv	Lab	Resv	Lab	Resv
A-Hg	340	-	391	-	807	-
G-W	66.7	46.3	76.7	53.2	158	110
O-W	38.9	24.1	44.7	27.7	92.3	57.2

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (μm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
1.00	0.0	0.0	0.0	0.0	212	0.20	0.14	0.11	0.07	0.20	0.12
1.16	0.2	0.2	0.0	0.0	183	0.23	0.16	0.13	0.08	0.23	0.14
1.38	0.2	0.4	0.0	0.0	154	0.27	0.19	0.16	0.10	0.27	0.17
1.64	0.3	0.7	0.0	0.0	130	0.32	0.22	0.19	0.12	0.32	0.20
1.94	0.2	0.9	0.0	0.0	109	0.38	0.27	0.22	0.14	0.38	0.24
2.31	0.3	1.2	0.0	0.0	91.7	0.45	0.32	0.26	0.16	0.45	0.28
2.76	0.3	1.5	0.0	0.0	76.9	0.54	0.38	0.32	0.20	0.54	0.34
3.28	0.3	1.7	0.0	0.0	64.6	0.64	0.45	0.38	0.23	0.64	0.40
3.91	0.3	2.0	0.0	0.0	54.3	0.77	0.53	0.45	0.28	0.77	0.48
4.65	0.4	2.4	0.0	0.0	45.6	0.91	0.63	0.53	0.33	0.91	0.57
5.53	0.4	2.8	0.0	0.0	38.3	1.08	0.75	0.63	0.39	1.09	0.67
6.58	0.4	3.1	0.0	0.0	32.2	1.29	0.90	0.75	0.47	1.29	0.80
7.82	0.3	3.4	0.0	0.0	27.1	1.53	1.06	0.90	0.55	1.54	0.95
9.30	0.3	3.7	0.0	0.0	22.8	1.82	1.26	1.06	0.66	1.82	1.13
11.1	0.2	3.9	0.0	0.0	19.2	2.18	1.51	1.27	0.79	2.18	1.35
13.1	0.2	4.1	0.0	0.0	16.1	2.57	1.78	1.50	0.93	2.57	1.60
15.6	0.2	4.3	0.0	0.0	13.6	3.06	2.13	1.79	1.11	3.08	1.91

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
18.6	0.2	4.5	0.0	0.0	11.4	3.65	2.53	2.13	1.32	3.66	2.27
22.1	0.2	4.8	0.0	0.0	9.61	4.34	3.01	2.53	1.57	4.35	2.70
26.2	0.3	5.0	0.0	0.0	8.09	5.14	3.57	3.00	1.86	5.15	3.20
30.0	0.3	5.3	0.0	0.0	7.07	5.89	4.09	3.43	2.12	5.87	3.67
36.0	0.1	5.4	0.0	0.0	5.89	7.06	4.90	4.12	2.55	7.07	4.39
41.4	0.0	5.4	0.0	0.0	5.13	8.12	5.64	4.74	2.93	8.12	5.06
50.9	0.1	5.5	0.0	0.0	4.17	9.99	6.94	5.83	3.61	10.0	6.22
61.5	0.8	6.3	0.0	0.0	3.45	12.1	8.40	7.04	4.36	12.1	7.53
69.7	0.1	6.4	0.0	0.0	3.04	13.7	9.51	7.98	4.94	13.7	8.53
83.5	0.2	6.6	0.0	0.0	2.54	16.4	11.4	9.56	5.92	16.4	10.2
101	0.2	6.8	0.0	0.0	2.11	19.8	13.8	11.6	7.18	19.9	12.4
119	0.2	7.0	0.0	0.0	1.78	23.3	16.2	13.6	8.42	23.3	14.5
144	0.3	7.3	0.0	0.0	1.47	28.3	19.7	16.5	10.2	28.3	17.7
170	0.3	7.5	0.0	0.0	1.25	33.4	23.2	19.5	12.1	33.5	20.8
204	0.4	7.9	0.0	0.0	1.04	40.0	27.8	23.3	14.4	39.9	24.9
243	0.4	8.4	0.0	0.0	0.873	47.7	33.1	27.8	17.2	47.7	29.7
288	0.5	8.8	0.0	0.0	0.737	56.5	39.2	33.0	20.4	56.5	35.1
343	0.5	9.4	0.0	0.0	0.619	67.3	46.7	39.3	24.3	67.3	41.9
407	0.9	10.3	1.0	1.0	0.521	79.8	55.4	46.6	28.8	79.8	49.7
488	1.4	11.7	1.6	2.6	0.434	95.7	66.5	55.8	34.5	95.6	59.6
577	2.3	14.0	2.5	5.1	0.367	113	78.5	66.0	40.9	113	70.4
688	2.5	16.5	2.7	7.8	0.308	135	93.8	78.7	48.7	135	84.1
816	2.2	18.7	2.5	10.3	0.260	160	111	93.4	57.8	160	99.5
966	2.0	20.7	2.2	12.5	0.219	190	132	111	68.7	190	118
1149	1.8	22.5	2.0	14.5	0.185	225	156	131	81.1	225	140
1364	1.6	24.1	1.7	16.2	0.155	268	186	156	96.6	268	167
1619	1.6	25.7	1.8	18.0	0.131	318	221	185	115	319	198
1924	1.6	27.3	1.8	19.8	0.110	377	262	220	136	377	235
2287	1.8	29.2	2.0	21.8	0.0927	449	312	262	162	449	280
2716	1.8	30.9	2.0	23.8	0.0780	533	370	311	193	535	332
3227	1.9	32.9	2.1	25.9	0.0657	633	440	369	228	632	394
3832	2.1	34.9	2.3	28.2	0.0553	752	522	439	272	754	468
4549	2.4	37.3	2.6	30.9	0.0466	892	619	521	323	895	555
5403	2.7	40.1	3.0	33.9	0.0392	1060	736	618	383	1061	660
6418	3.3	43.4	3.6	37.5	0.0330	1259	874	734	454	1258	784

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
7622	4.2	47.5	4.6	42.1	0.0278	1495	1038	872	540	1496	931
9052	4.8	52.4	5.3	47.5	0.0234	1776	1233	1036	641	1776	1105
10750	5.1	57.5	5.6	53.1	0.0197	2109	1465	1230	761	2109	1313
12767	5.7	63.2	6.3	59.4	0.0166	2505	1740	1461	904	2505	1560
15163	6.5	69.7	7.1	66.5	0.0140	2975	2066	1735	1074	2976	1852
18008	5.2	74.9	5.7	72.3	0.0118	3533	2453	2061	1276	3536	2199
21381	4.3	79.1	4.7	77.0	0.0099	4195	2913	2447	1515	4198	2611
25397	4.6	83.7	5.1	82.1	0.0083	4983	3460	2906	1799	4985	3102
30161	3.9	87.7	4.3	86.4	0.0070	5917	4109	3452	2137	5921	3684
35822	6.4	94.1	7.1	93.5	0.0059	7028	4881	4100	2538	7033	4376
42537	3.5	97.5	3.8	97.3	0.0050	8345	5795	4868	3014	8352	5195
46879	1.5	99.1	1.7	99.0	0.0045	9197	6387	5365	3321	9202	5726
59951	0.9	100.0	1.0	100.0	0.0035	11762	8168	6861	4247	11768	7322

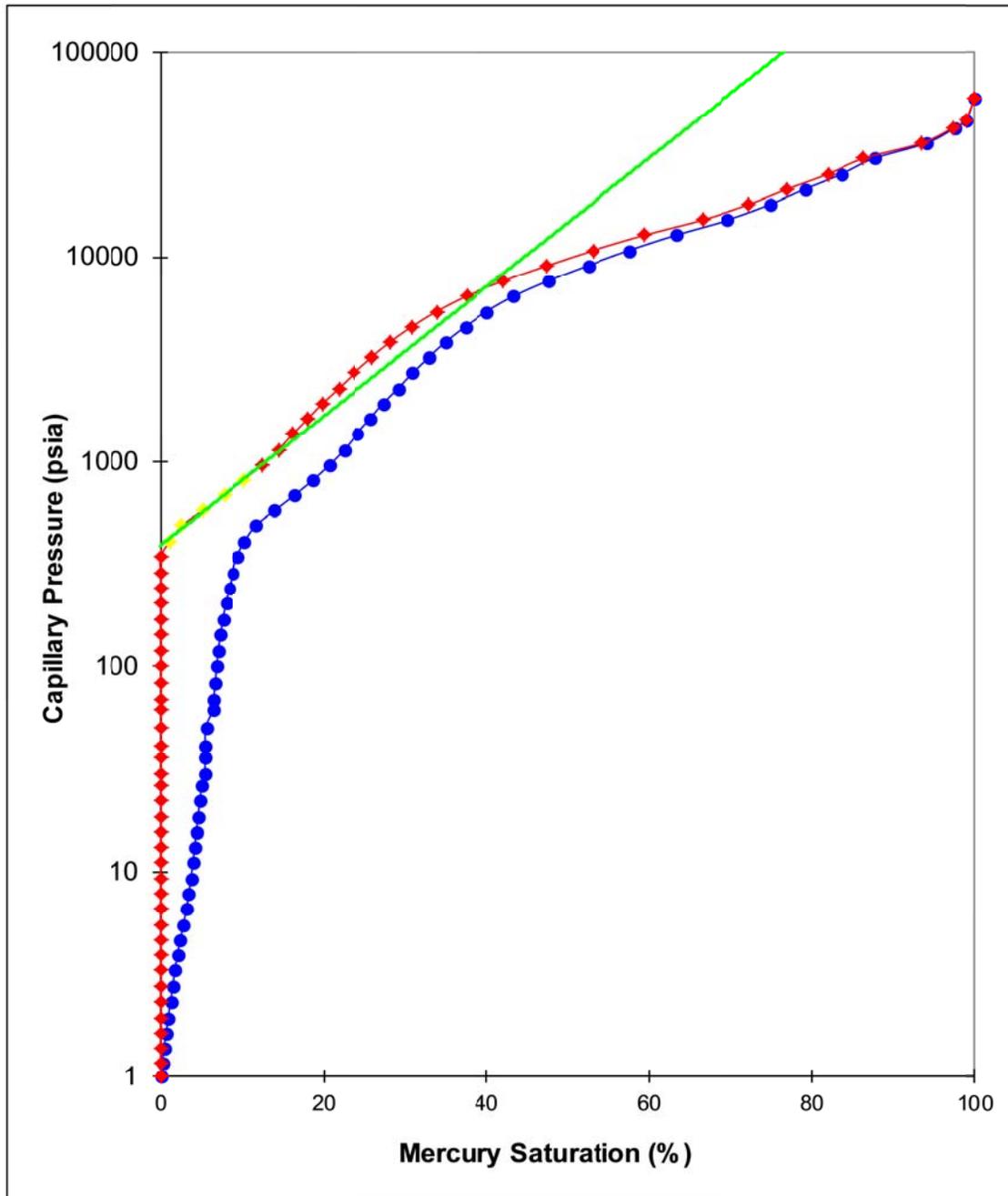
CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample R20 **Ambient Permeability** 0.039 mD
Depth 3864.45 m **Ambient Porosity** 3.2 %



PORE SIZE DISTRIBUTION

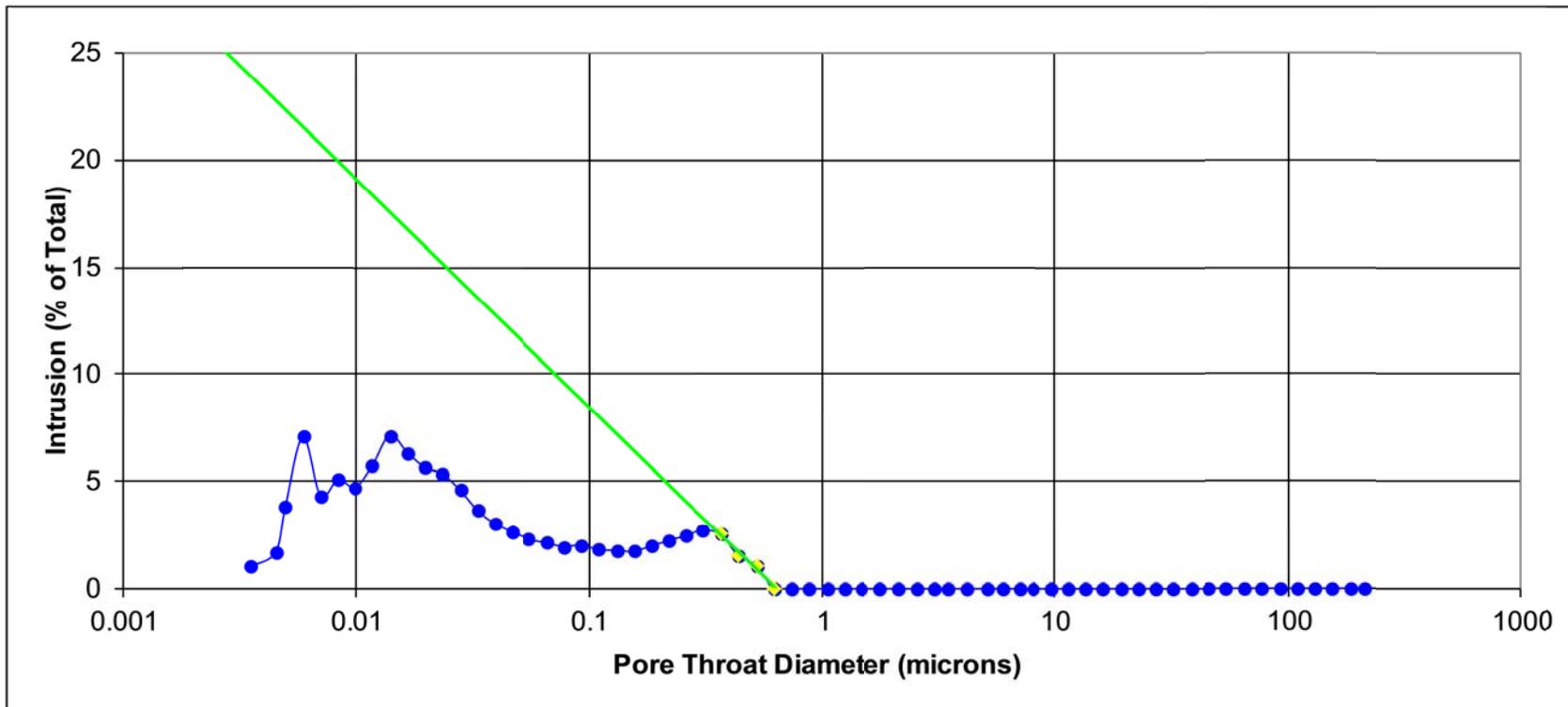


Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample R20
Depth 3864.45 m

Ambient Permeability 0.039 mD
Ambient Porosity 3.2 %



INTERPRETED CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2
Test Method Air/Mercury Capillary Pressure Drainage
Sample S8
Depth 3864.50 m
Ambient Permeability 0.011 mD
Ambient Porosity 3.6 %
Pore radius 0.19 µm

Pressure Gradients, psi/foot		Conversion Parameters				
		Typical	Laboratory Θ	air/mercury	air/water	air/oil
Water:	0.440	Laboratory IFT	140	0.0	0.0	30.0
Oil:	0.330	Reservoir Θ	480	72.0	24.0	48.0
Gas:	0.100	Reservoir IFT		0.0		30.0
		Laboratory Tcos Θ	367	50.0		30.0
		Reservoir Tcos Θ		72.0	24.0	42.0
				50.0		26.0
		Entry Pressure (psi)	Displacement Pressure (psi)		Threshold Pressure (psi)	
System	Lab	Resv	Lab	Resv	Lab	Resv
A-Hg	572	-	607	-	998	-
G-W	112	78.0	119	82.9	196	137
O-W	65.5	40.5	69.5	43.0	114	70.5

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
1.00	0.0	0.0	0.0	0.0	212	0.20	0.14	0.11	0.07	0.20	0.12
1.16	0.1	0.1	0.0	0.0	183	0.23	0.16	0.13	0.08	0.23	0.14
1.38	0.2	0.4	0.0	0.0	154	0.27	0.19	0.16	0.10	0.27	0.17
1.64	0.2	0.6	0.0	0.0	129	0.32	0.22	0.19	0.12	0.32	0.20
1.94	0.2	0.8	0.0	0.0	109	0.38	0.27	0.22	0.14	0.38	0.24
2.32	0.3	1.1	0.0	0.0	91.6	0.46	0.32	0.27	0.17	0.46	0.28
2.76	0.2	1.3	0.0	0.0	76.9	0.54	0.38	0.32	0.20	0.54	0.34
3.28	0.3	1.6	0.0	0.0	64.6	0.64	0.45	0.38	0.23	0.64	0.40
3.91	0.2	1.8	0.0	0.0	54.2	0.77	0.53	0.45	0.28	0.77	0.48
4.65	0.2	2.0	0.0	0.0	45.6	0.91	0.63	0.53	0.33	0.91	0.57
5.53	0.2	2.1	0.0	0.0	38.3	1.08	0.75	0.63	0.39	1.09	0.67
6.58	0.2	2.3	0.0	0.0	32.2	1.29	0.90	0.75	0.47	1.29	0.80
7.82	0.2	2.5	0.0	0.0	27.1	1.53	1.06	0.90	0.55	1.54	0.95
9.30	0.2	2.7	0.0	0.0	22.8	1.82	1.26	1.06	0.66	1.82	1.13
11.1	0.2	2.9	0.0	0.0	19.2	2.18	1.51	1.27	0.79	2.18	1.35
13.1	0.3	3.2	0.0	0.0	16.1	2.57	1.78	1.50	0.93	2.57	1.60
15.6	0.3	3.4	0.0	0.0	13.6	3.06	2.13	1.79	1.11	3.08	1.91

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
18.6	0.3	3.8	0.0	0.0	11.4	3.65	2.53	2.13	1.32	3.66	2.27
22.1	0.4	4.1	0.0	0.0	9.61	4.34	3.01	2.53	1.57	4.35	2.70
26.2	0.4	4.6	0.0	0.0	8.09	5.14	3.57	3.00	1.86	5.15	3.20
30.0	0.5	5.0	0.0	0.0	7.07	5.89	4.09	3.43	2.12	5.87	3.67
34.9	0.0	5.0	0.0	0.0	6.08	6.85	4.76	3.99	2.47	6.84	4.27
42.3	0.1	5.1	0.0	0.0	5.01	8.30	5.76	4.84	3.00	8.31	5.16
49.2	0.1	5.2	0.0	0.0	4.31	9.65	6.70	5.63	3.49	9.67	6.01
59.3	0.1	5.3	0.0	0.0	3.57	11.6	8.06	6.79	4.20	11.6	7.23
71.9	0.1	5.4	0.0	0.0	2.95	14.1	9.79	8.23	5.09	14.1	8.78
83.9	0.2	5.6	0.0	0.0	2.53	16.5	11.5	9.60	5.94	16.5	10.3
101	0.2	5.8	0.0	0.0	2.10	19.8	13.8	11.6	7.18	19.9	12.4
121	0.2	6.1	0.0	0.0	1.75	23.7	16.5	13.8	8.54	23.7	14.8
144	0.3	6.3	0.0	0.0	1.47	28.3	19.7	16.5	10.2	28.3	17.7
170	0.3	6.6	0.0	0.0	1.25	33.4	23.2	19.5	12.1	33.5	20.8
203	0.4	7.0	0.0	0.0	1.05	39.8	27.6	23.2	14.4	39.9	24.7
243	0.4	7.4	0.0	0.0	0.874	47.7	33.1	27.8	17.2	47.7	29.7
287	0.4	7.8	0.0	0.0	0.738	56.3	39.1	32.8	20.3	56.2	35.1
344	0.5	8.3	0.0	0.0	0.616	67.5	46.9	39.4	24.4	67.6	42.0
409	0.6	8.9	0.0	0.0	0.519	80.2	55.7	46.8	29.0	80.4	49.9
483	0.8	9.7	0.0	0.0	0.439	94.8	65.8	55.3	34.2	94.8	59.0
576	1.1	10.8	0.0	0.0	0.368	113	78.5	65.9	40.8	113	70.4
685	2.1	12.9	2.3	2.3	0.309	134	93.1	78.4	48.5	134	83.5
814	3.4	16.3	3.8	6.2	0.260	160	111	93.2	57.7	160	99.5
966	2.7	19.0	3.0	9.2	0.219	190	132	111	68.7	190	118
1148	2.1	21.1	2.3	11.5	0.185	225	156	131	81.1	225	140
1364	1.9	23.0	2.1	13.6	0.155	268	186	156	96.6	268	167
1621	1.8	24.7	2.0	15.6	0.131	318	221	186	115	319	198
1923	1.7	26.5	1.9	17.6	0.110	377	262	220	136	377	235
2286	1.8	28.2	2.0	19.5	0.0927	448	311	262	162	449	279
2715	1.8	30.1	2.0	21.6	0.0781	533	370	311	193	535	332
3225	1.8	31.8	2.0	23.6	0.0657	633	440	369	228	632	394
3831	2.2	34.1	2.5	26.1	0.0553	752	522	438	271	751	468
4549	2.4	36.5	2.7	28.8	0.0466	892	619	521	323	895	555
5403	2.8	39.3	3.2	31.9	0.0392	1060	736	618	383	1061	660
6415	2.9	42.2	3.3	35.2	0.0330	1259	874	734	454	1258	784

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
7622	4.2	46.4	4.7	39.9	0.0278	1495	1038	872	540	1496	931
9051	4.6	51.0	5.2	45.1	0.0234	1776	1233	1036	641	1776	1105
10749	5.1	56.1	5.7	50.8	0.0197	2109	1465	1230	761	2109	1313
12768	6.1	62.2	6.9	57.7	0.0166	2505	1740	1461	904	2505	1560
15162	6.3	68.6	7.1	64.8	0.0140	2975	2066	1735	1074	2976	1852
18007	6.0	74.6	6.7	71.5	0.0118	3533	2453	2061	1276	3536	2199
21386	5.1	79.7	5.7	77.2	0.0099	4196	2914	2447	1515	4198	2612
25400	5.4	85.1	6.1	83.3	0.0083	4983	3460	2907	1800	4988	3102
30164	4.8	89.9	5.4	88.7	0.0070	5918	4110	3452	2137	5921	3684
35822	5.2	95.1	5.8	94.5	0.0059	7028	4881	4100	2538	7033	4376
42525	2.7	97.8	3.1	97.6	0.0050	8343	5794	4867	3013	8349	5194
46880	1.7	99.5	1.9	99.4	0.0045	9197	6387	5365	3321	9202	5726
59948	0.5	100.0	0.6	100.0	0.0035	11761	8167	6861	4247	11768	7321

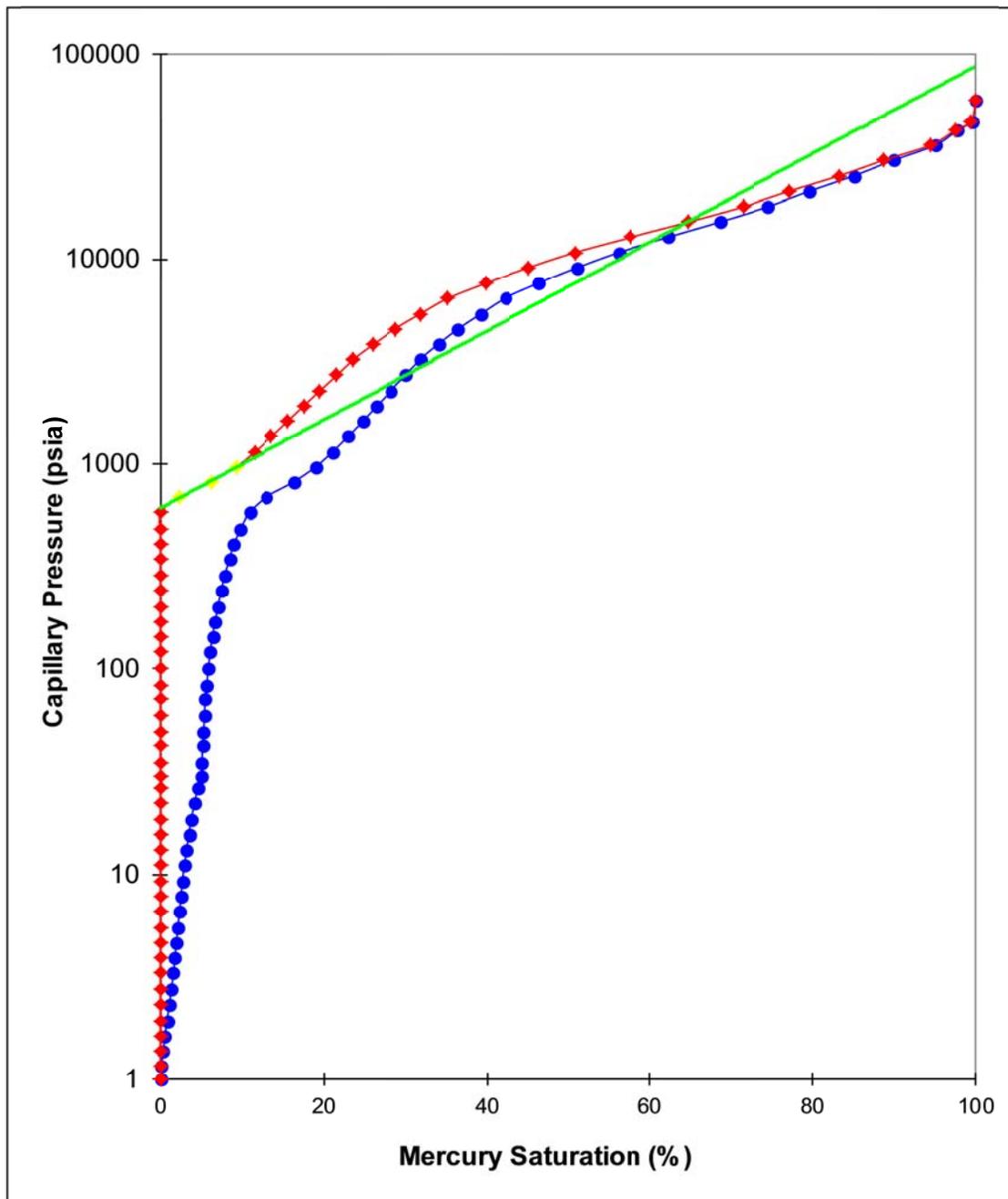
CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample S8 **Ambient Permeability** 0.011 mD
Depth 3864.50 m **Ambient Porosity** 3.6 %



PORE SIZE DISTRIBUTION

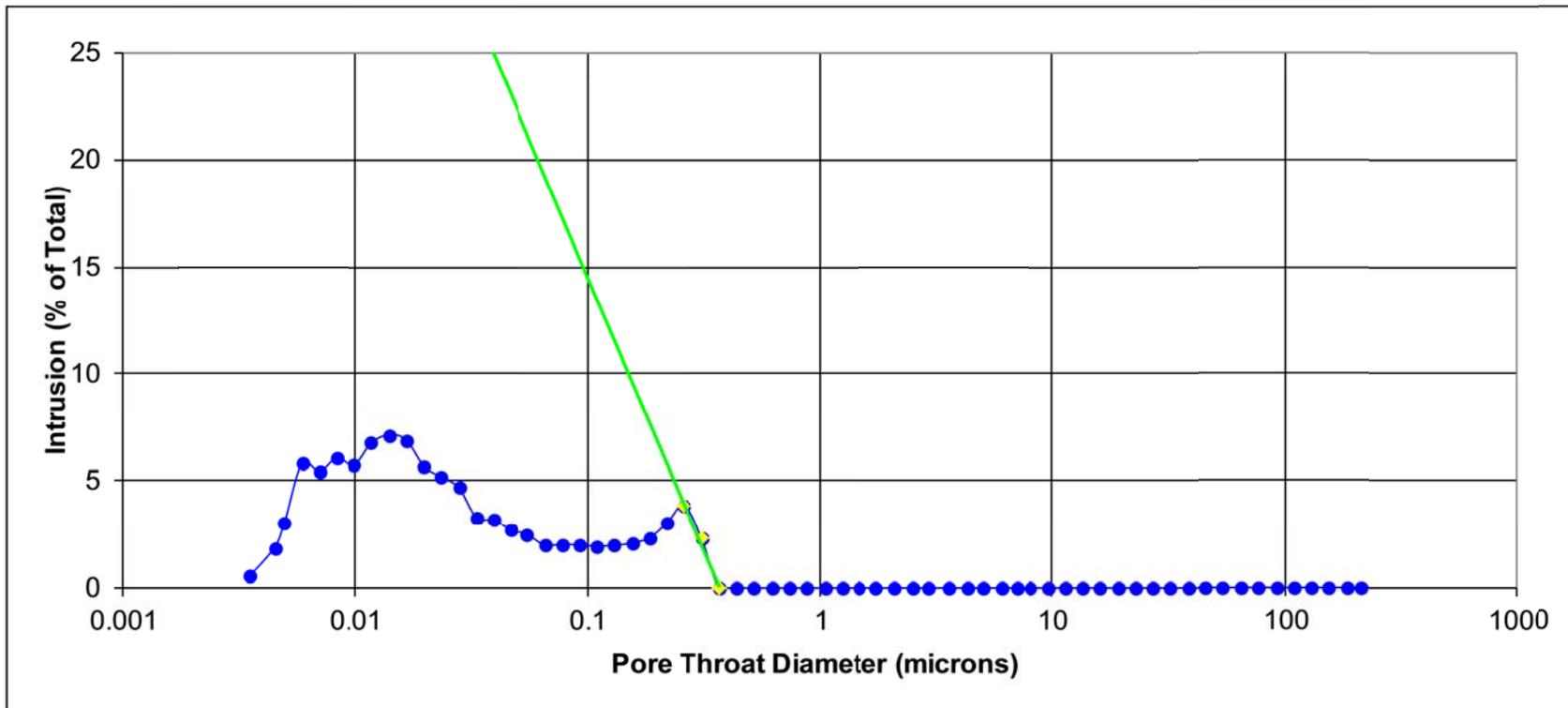


Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample S8
Depth 3864.50 m

Ambient Permeability 0.011 mD
Ambient Porosity 3.6 %



INTERPRETED CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2
Test Method Air/Mercury Capillary Pressure Drainage
Sample R22
Depth 3865.40 m
Ambient Permeability 0.48 mD
Ambient Porosity 7.7 %
Pore radius 0.75 µm

Pressure Gradients, psi/foot		Conversion Parameters				
		Typical	Laboratory Θ	air/mercury	air/water	air/oil
Water:	0.440	Laboratory IFT	140	0.0	0.0	30.0
Oil:	0.330	Reservoir Θ	480	72.0	24.0	48.0
Gas:	0.100	Reservoir IFT		0.0		30.0
		Laboratory Tcos Θ	367	50.0		30.0
		Reservoir Tcos Θ		72.0	24.0	42.0
				50.0		26.0
		Entry Pressure (psi)	Displacement Pressure (psi)		Threshold Pressure (psi)	
System	Lab	Resv	Lab	Resv	Lab	Resv
A-Hg	142	-	147	-	252	-
G-W	28.0	19.4	29.0	20.1	49.7	34.4
O-W	16.3	10.1	16.9	10.5	29.0	18.0

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
1.00	0.0	0.0	0.0	0.0	212	0.20	0.14	0.11	0.07	0.20	0.12
1.16	0.3	0.3	0.0	0.0	183	0.23	0.16	0.13	0.08	0.23	0.14
1.38	0.3	0.6	0.0	0.0	154	0.27	0.19	0.16	0.10	0.27	0.17
1.64	0.3	0.8	0.0	0.0	129	0.32	0.22	0.19	0.12	0.32	0.20
1.94	0.2	1.0	0.0	0.0	109	0.38	0.27	0.22	0.14	0.38	0.24
2.32	0.2	1.2	0.0	0.0	91.6	0.46	0.32	0.27	0.17	0.46	0.28
2.76	0.2	1.4	0.0	0.0	76.9	0.54	0.38	0.32	0.20	0.54	0.34
3.28	0.2	1.5	0.0	0.0	64.6	0.64	0.45	0.38	0.23	0.64	0.40
3.91	0.1	1.7	0.0	0.0	54.2	0.77	0.53	0.45	0.28	0.77	0.48
4.65	0.1	1.8	0.0	0.0	45.6	0.91	0.63	0.53	0.33	0.91	0.57
5.53	0.1	1.9	0.0	0.0	38.3	1.08	0.75	0.63	0.39	1.09	0.67
6.58	0.1	2.0	0.0	0.0	32.2	1.29	0.90	0.75	0.47	1.29	0.80
7.82	0.1	2.1	0.0	0.0	27.1	1.53	1.06	0.90	0.55	1.54	0.95
9.30	0.1	2.2	0.0	0.0	22.8	1.82	1.26	1.06	0.66	1.82	1.13
11.1	0.1	2.3	0.0	0.0	19.2	2.18	1.51	1.27	0.79	2.18	1.35
13.1	0.1	2.4	0.0	0.0	16.1	2.57	1.78	1.50	0.93	2.57	1.60
15.6	0.1	2.5	0.0	0.0	13.6	3.06	2.13	1.79	1.11	3.08	1.91

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
18.6	0.2	2.7	0.0	0.0	11.4	3.65	2.53	2.13	1.32	3.66	2.27
22.1	0.2	2.9	0.0	0.0	9.61	4.34	3.01	2.53	1.57	4.35	2.70
26.2	0.2	3.1	0.0	0.0	8.09	5.14	3.57	3.00	1.86	5.15	3.20
30.0	0.2	3.3	0.0	0.0	7.07	5.89	4.09	3.43	2.12	5.87	3.67
34.9	0.0	3.3	0.0	0.0	6.08	6.85	4.76	3.99	2.47	6.84	4.27
42.3	0.0	3.3	0.0	0.0	5.01	8.30	5.76	4.84	3.00	8.31	5.16
49.2	0.1	3.5	0.0	0.0	4.31	9.65	6.70	5.63	3.49	9.67	6.01
59.3	0.2	3.7	0.0	0.0	3.57	11.6	8.06	6.79	4.20	11.6	7.23
71.9	0.3	4.0	0.0	0.0	2.95	14.1	9.79	8.23	5.09	14.1	8.78
83.8	0.3	4.3	0.0	0.0	2.53	16.4	11.4	9.59	5.94	16.5	10.2
101	0.5	4.7	0.0	0.0	2.10	19.8	13.8	11.6	7.18	19.9	12.4
121	0.9	5.6	0.0	0.0	1.75	23.7	16.5	13.8	8.54	23.7	14.8
144	1.6	7.2	0.0	0.0	1.47	28.3	19.7	16.5	10.2	28.3	17.7
170	2.4	9.6	2.6	2.6	1.25	33.4	23.2	19.5	12.1	33.5	20.8
202	3.3	12.9	3.6	6.2	1.05	39.6	27.5	23.1	14.3	39.6	24.7
242	2.7	15.7	3.0	9.1	0.875	47.5	33.0	27.7	17.1	47.4	29.6
287	1.9	17.6	2.0	11.2	0.739	56.3	39.1	32.8	20.3	56.2	35.1
343	1.7	19.3	1.9	13.0	0.617	67.3	46.7	39.3	24.3	67.3	41.9
408	1.7	21.0	1.8	14.8	0.519	80.0	55.6	46.7	28.9	80.1	49.8
483	1.5	22.5	1.7	16.5	0.439	94.8	65.8	55.3	34.2	94.8	59.0
576	1.5	24.0	1.6	18.1	0.368	113	78.5	65.9	40.8	113	70.4
685	1.5	25.5	1.6	19.7	0.310	134	93.1	78.4	48.5	134	83.5
814	1.4	26.9	1.5	21.2	0.260	160	111	93.2	57.7	160	99.5
966	1.3	28.2	1.4	22.6	0.219	190	132	111	68.7	190	118
1147	1.3	29.5	1.4	24.0	0.185	225	156	131	81.1	225	140
1363	1.3	30.8	1.4	25.4	0.156	267	185	156	96.6	268	166
1621	1.3	32.1	1.4	26.9	0.131	318	221	186	115	319	198
1923	1.4	33.5	1.5	28.3	0.110	377	262	220	136	377	235
2286	1.5	35.0	1.7	30.0	0.0927	448	311	262	162	449	279
2715	1.8	36.8	1.9	31.9	0.0781	533	370	311	193	535	332
3225	2.1	38.9	2.2	34.1	0.0657	633	440	369	228	632	394
3831	2.6	41.5	2.8	36.9	0.0553	752	522	438	271	751	468
4548	3.3	44.8	3.5	40.5	0.0466	892	619	520	322	892	555
5402	3.9	48.6	4.2	44.6	0.0392	1060	736	618	383	1061	660
6415	4.2	52.8	4.5	49.2	0.0330	1259	874	734	454	1258	784

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
7621	5.5	58.3	5.9	55.1	0.0278	1495	1038	872	540	1496	931
9050	5.9	64.3	6.4	61.5	0.0234	1775	1233	1036	641	1776	1105
10748	5.9	70.2	6.4	67.9	0.0197	2109	1465	1230	761	2109	1313
12767	6.1	76.2	6.5	74.4	0.0166	2505	1740	1461	904	2505	1560
15161	5.5	81.7	5.9	80.3	0.0140	2974	2065	1735	1074	2976	1851
18006	4.6	86.3	5.0	85.3	0.0118	3533	2453	2061	1276	3536	2199
21385	3.5	89.8	3.7	89.0	0.0099	4195	2913	2447	1515	4198	2611
25398	3.0	92.8	3.2	92.2	0.0083	4983	3460	2907	1800	4988	3102
30163	2.3	95.1	2.5	94.7	0.0070	5918	4110	3452	2137	5921	3684
35821	2.2	97.3	2.3	97.1	0.0059	7028	4881	4099	2537	7030	4376
42524	1.2	98.5	1.3	98.4	0.0050	8343	5794	4867	3013	8349	5194
46879	0.6	99.1	0.7	99.0	0.0045	9197	6387	5365	3321	9202	5726
59947	0.9	100.0	1.0	100.0	0.0035	11761	8167	6860	4247	11768	7321

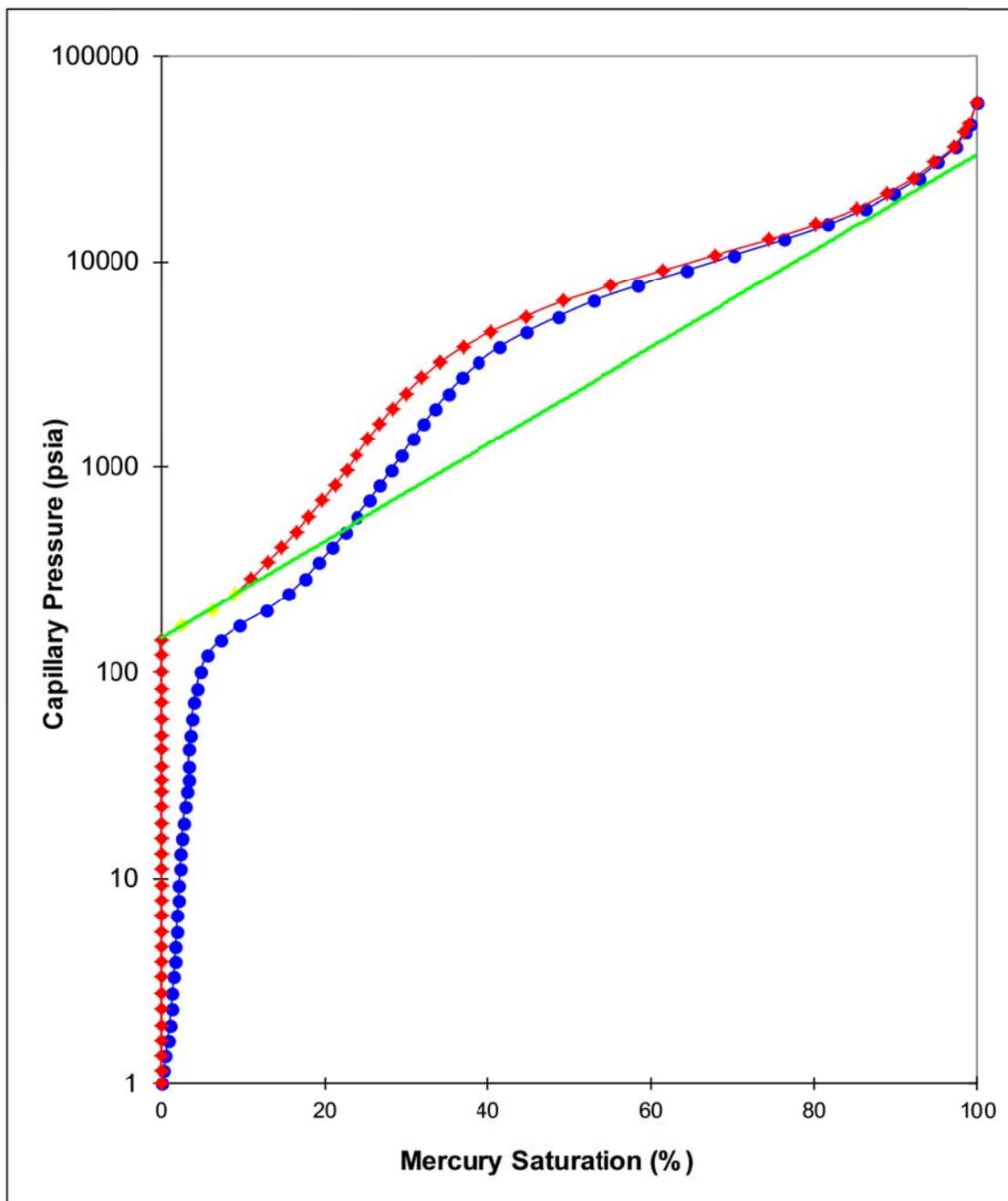
CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample R22 **Ambient Permeability** 0.48 mD
Depth 3865.40 m **Ambient Porosity** 7.7 %



PORE SIZE DISTRIBUTION

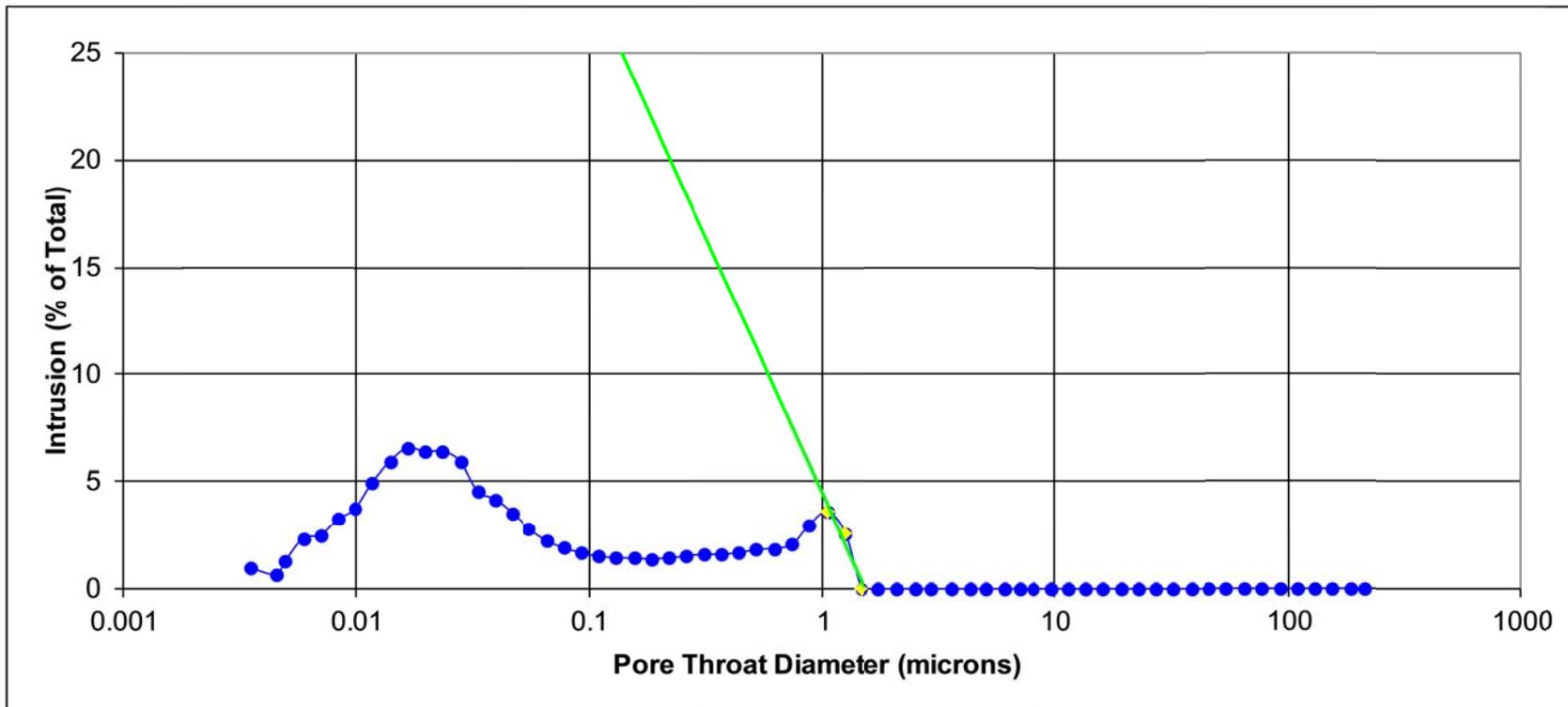


Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample R22
Depth 3865.40 m

Ambient Permeability 0.48 mD
Ambient Porosity 7.7 %



INTERPRETED CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2
Test Method Air/Mercury Capillary Pressure Drainage
Sample S9
Depth 3865.52 m
Ambient Permeability 0.46 mD
Ambient Porosity 8.8 %
Pore radius 1.45 µm

Pressure Gradients, psi/foot		Conversion Parameters				
		Typical	air/mercury	air/water	air/oil	oil/water
Water:	0.440	Laboratory Θ	140	0.0	0.0	30.0
Oil:	0.330	Laboratory IFT	480	72.0	24.0	48.0
Gas:	0.100	Reservoir Θ		0.0		30.0
		Reservoir IFT		50.0		30.0
		Laboratory Tcos Θ	367	72.0	24.0	42.0
		Reservoir Tcos Θ		50.0		26.0
		Entry Pressure (psi)	Displacement Pressure (psi)		Threshold Pressure (psi)	
System	Lab	Resv	Lab	Resv	Lab	Resv
A-Hg	73.4	-	74.8	-	146	-
G-W	14.4	10.0	14.7	10.2	28.7	19.9
O-W	8.40	5.20	8.56	5.30	16.7	10.3

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
1.00	0.0	0.0	0.0	0.0	212	0.20	0.14	0.11	0.07	0.20	0.12
1.16	0.1	0.1	0.0	0.0	183	0.23	0.16	0.13	0.08	0.23	0.14
1.38	0.1	0.3	0.0	0.0	154	0.27	0.19	0.16	0.10	0.27	0.17
1.64	0.1	0.4	0.0	0.0	130	0.32	0.22	0.19	0.12	0.32	0.20
1.94	0.1	0.6	0.0	0.0	109	0.38	0.27	0.22	0.14	0.38	0.24
2.32	0.2	0.7	0.0	0.0	91.5	0.46	0.32	0.27	0.17	0.46	0.28
2.76	0.1	0.8	0.0	0.0	76.9	0.54	0.38	0.32	0.20	0.54	0.34
3.28	0.1	1.0	0.0	0.0	64.6	0.64	0.45	0.38	0.23	0.64	0.40
3.91	0.1	1.0	0.0	0.0	54.3	0.77	0.53	0.45	0.28	0.77	0.48
4.65	0.1	1.2	0.0	0.0	45.6	0.91	0.63	0.53	0.33	0.91	0.57
5.53	0.1	1.3	0.0	0.0	38.3	1.08	0.75	0.63	0.39	1.09	0.67
6.58	0.1	1.4	0.0	0.0	32.2	1.29	0.90	0.75	0.47	1.29	0.80
7.82	0.1	1.5	0.0	0.0	27.1	1.53	1.06	0.90	0.55	1.54	0.95
9.30	0.3	1.8	0.0	0.0	22.8	1.82	1.26	1.06	0.66	1.82	1.13
11.1	0.2	2.0	0.0	0.0	19.2	2.18	1.51	1.27	0.79	2.18	1.35
13.1	0.2	2.2	0.0	0.0	16.1	2.57	1.78	1.50	0.93	2.57	1.60
15.6	0.2	2.4	0.0	0.0	13.6	3.06	2.13	1.79	1.11	3.08	1.91

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
18.6	0.3	2.7	0.0	0.0	11.4	3.65	2.53	2.13	1.32	3.66	2.27
22.1	0.2	2.9	0.0	0.0	9.61	4.34	3.01	2.53	1.57	4.35	2.70
26.2	0.4	3.3	0.0	0.0	8.09	5.14	3.57	3.00	1.86	5.15	3.20
30.0	0.4	3.7	0.0	0.0	7.07	5.89	4.09	3.43	2.12	5.87	3.67
37.0	0.1	3.8	0.0	0.0	5.72	7.26	5.04	4.23	2.62	7.26	4.52
42.8	0.3	4.0	0.0	0.0	4.96	8.40	5.83	4.90	3.03	8.40	5.23
51.5	0.4	4.4	0.0	0.0	4.12	10.1	7.01	5.89	3.65	10.1	6.28
60.6	0.5	5.0	0.0	0.0	3.50	11.9	8.26	6.94	4.30	11.9	7.40
73.8	1.2	6.1	0.0	0.0	2.87	14.5	10.1	8.45	5.23	14.5	9.05
87.0	2.1	8.2	2.2	2.2	2.44	17.1	11.9	9.96	6.17	17.1	10.7
103	2.4	10.7	2.6	4.8	2.05	20.2	14.0	11.8	7.30	20.2	12.6
122	2.3	13.0	2.5	7.3	1.73	23.9	16.6	14.0	8.67	24.0	14.9
146	2.3	15.3	2.5	9.8	1.45	28.6	19.9	16.7	10.3	28.5	17.8
173	2.1	17.4	2.2	12.0	1.23	33.9	23.5	19.8	12.3	34.1	21.1
205	1.9	19.4	2.1	14.1	1.03	40.2	27.9	23.5	14.5	40.2	25.0
244	1.8	21.2	2.0	16.0	0.869	47.9	33.3	27.9	17.3	47.9	29.9
290	1.7	22.9	1.8	17.8	0.730	56.9	39.5	33.2	20.6	57.1	35.4
344	1.7	24.6	1.8	19.6	0.616	67.5	46.9	39.4	24.4	67.6	42.0
408	1.5	26.0	1.6	21.2	0.519	80.0	55.6	46.7	28.9	80.1	49.8
486	1.4	27.5	1.5	22.7	0.436	95.3	66.2	55.6	34.4	95.3	59.3
576	1.4	28.8	1.4	24.2	0.368	113	78.5	65.9	40.8	113	70.4
686	1.3	30.1	1.4	25.6	0.309	135	93.8	78.5	48.6	135	84.1
814	1.3	31.4	1.4	26.9	0.260	160	111	93.2	57.7	160	99.5
969	1.2	32.6	1.3	28.2	0.219	190	132	111	68.7	190	118
1149	1.3	33.9	1.4	29.6	0.184	225	156	131	81.1	225	140
1364	1.3	35.2	1.4	31.0	0.155	268	186	156	96.6	268	167
1620	1.4	36.6	1.5	32.5	0.131	318	221	185	115	319	198
1926	1.4	38.0	1.5	34.0	0.110	378	263	220	136	377	236
2289	1.6	39.6	1.7	35.7	0.0926	449	312	262	162	449	280
2718	1.9	41.5	2.0	37.7	0.0780	533	370	311	193	535	332
3226	2.1	43.6	2.2	39.9	0.0657	633	440	369	228	632	394
3833	2.7	46.3	2.9	42.8	0.0553	752	522	439	272	754	468
4549	2.8	49.1	3.0	45.7	0.0466	892	619	521	323	895	555
5403	3.3	52.4	3.5	49.3	0.0392	1060	736	618	383	1061	660
6417	3.7	56.1	3.9	53.2	0.0330	1259	874	734	454	1258	784

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
7622	4.6	60.7	4.9	58.1	0.0278	1495	1038	872	540	1496	931
9052	4.9	65.6	5.2	63.3	0.0234	1776	1233	1036	641	1776	1105
10750	5.7	71.2	6.0	69.3	0.0197	2109	1465	1230	761	2109	1313
12767	5.6	76.9	6.0	75.4	0.0166	2505	1740	1461	904	2505	1560
15163	5.2	82.1	5.6	80.9	0.0140	2975	2066	1735	1074	2976	1852
18007	4.9	87.0	5.2	86.1	0.0118	3533	2453	2061	1276	3536	2199
21385	3.6	90.5	3.8	89.9	0.0099	4195	2913	2447	1515	4198	2611
25398	3.2	93.7	3.4	93.3	0.0083	4983	3460	2907	1800	4988	3102
30163	2.0	95.7	2.2	95.5	0.0070	5918	4110	3452	2137	5921	3684
35817	1.5	97.2	1.6	97.0	0.0059	7027	4880	4099	2537	7030	4375
42520	1.2	98.5	1.3	98.4	0.0050	8342	5793	4866	3012	8346	5193
46874	0.6	99.1	0.6	99.0	0.0045	9196	6386	5364	3321	9202	5725
59948	0.9	100.0	1.0	100.0	0.0035	11761	8167	6861	4247	11768	7321

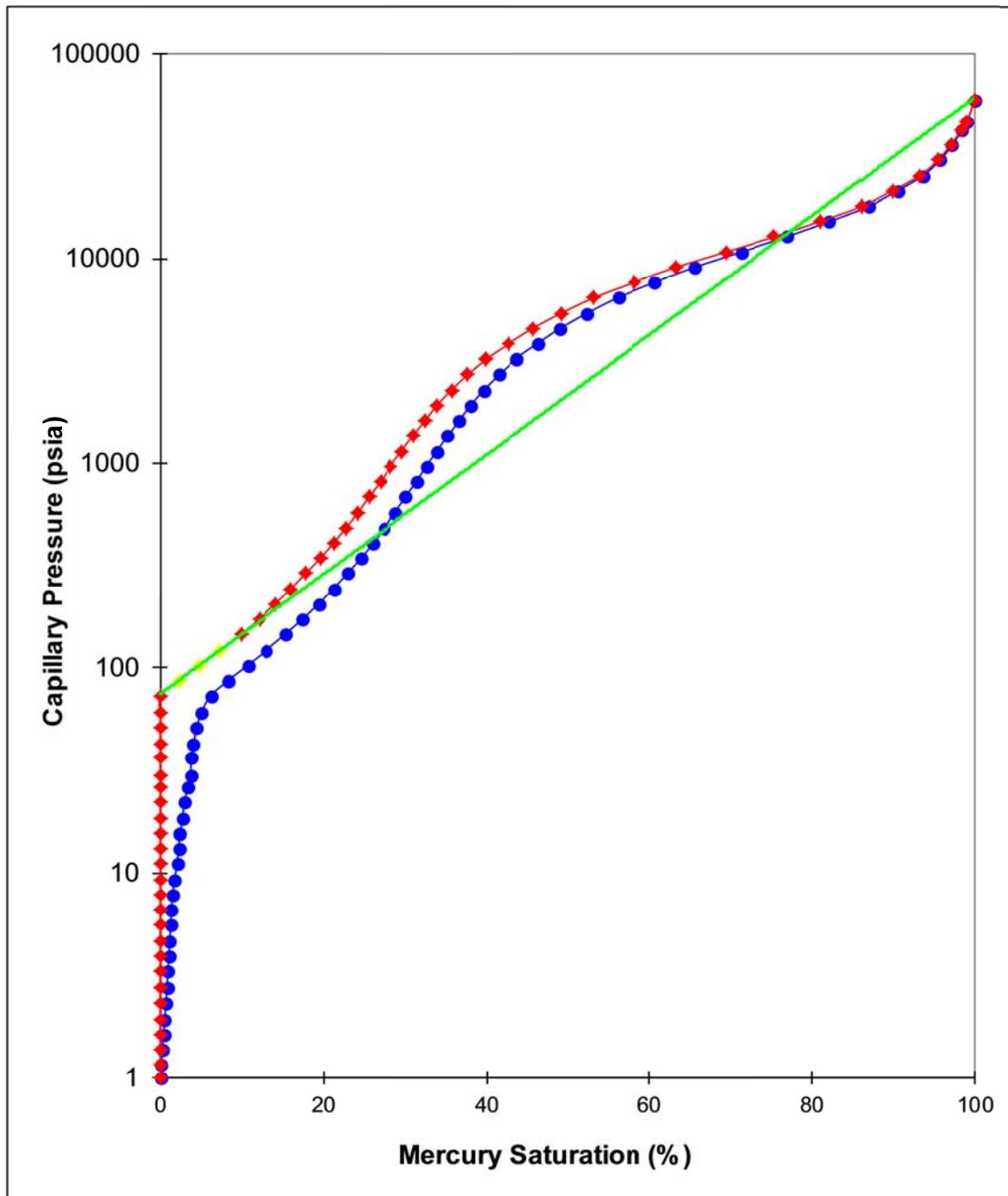
CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample S9 **Ambient Permeability** 0.46 mD
Depth 3865.52 m **Ambient Porosity** 8.8 %



PORE SIZE DISTRIBUTION

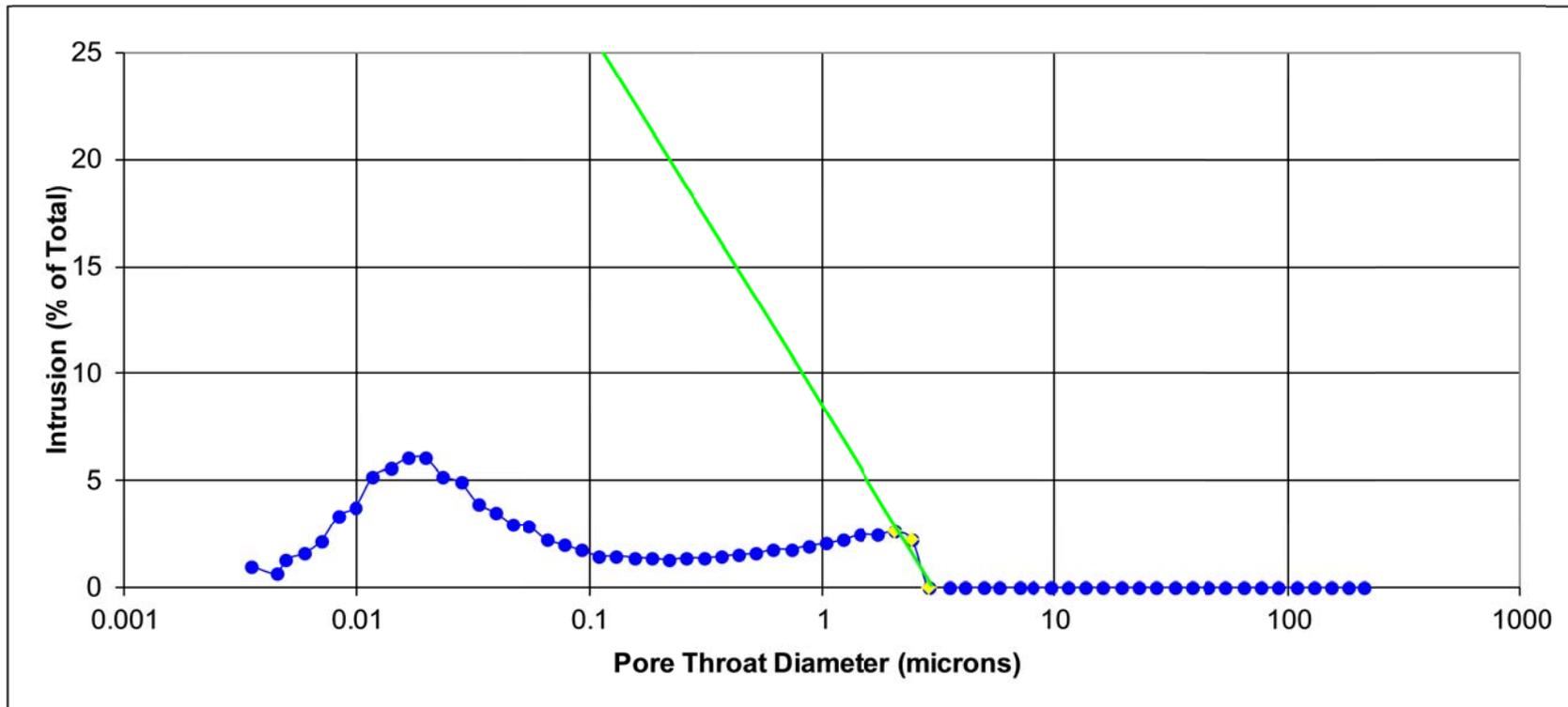


Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample S9
Depth 3865.52 m

Ambient Permeability 0.46 mD
Ambient Porosity 8.8 %



INTERPRETED CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2
Test Method Air/Mercury Capillary Pressure Drainage
Sample R36
Depth 3875.60 m
Ambient Permeability 0.023 mD
Ambient Porosity 2.2 %
Pore radius 0.09 µm

Pressure Gradients, psi/foot		Conversion Parameters				
	Typical		air/mercury	air/water	air/oil	oil/water
Water:	0.440	Laboratory Θ	140	0.0	0.0	30.0
Oil:	0.330	Laboratory IFT	480	72.0	24.0	48.0
Gas:	0.100	Reservoir Θ		0.0		30.0
		Reservoir IFT		50.0		30.0
		Laboratory Tcos Θ	367	72.0	24.0	42.0
		Reservoir Tcos Θ		50.0		26.0
		Entry Pressure (psi)	Displacement Pressure (psi)		Threshold Pressure (psi)	
System	Lab	Resv	Lab	Resv	Lab	Resv
A-Hg	1144	-	1269	-	2301	-
G-W	225	156	250	173	453	313
O-W	131	81.1	145	89.8	263	163

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
1.00	0.0	0.0	0.0	0.0	212	0.20	0.14	0.11	0.07	0.20	0.12
1.16	0.2	0.2	0.0	0.0	183	0.23	0.16	0.13	0.08	0.23	0.14
1.38	0.4	0.7	0.0	0.0	154	0.27	0.19	0.16	0.10	0.27	0.17
1.64	0.3	1.0	0.0	0.0	130	0.32	0.22	0.19	0.12	0.32	0.20
1.94	0.3	1.2	0.0	0.0	109	0.38	0.27	0.22	0.14	0.38	0.24
2.32	0.3	1.5	0.0	0.0	91.6	0.46	0.32	0.27	0.17	0.46	0.28
2.76	0.2	1.7	0.0	0.0	76.9	0.54	0.38	0.32	0.20	0.54	0.34
3.29	0.3	2.0	0.0	0.0	64.5	0.65	0.45	0.38	0.23	0.65	0.40
3.91	0.2	2.2	0.0	0.0	54.2	0.77	0.53	0.45	0.28	0.77	0.48
4.65	0.2	2.4	0.0	0.0	45.6	0.91	0.63	0.53	0.33	0.91	0.57
5.53	0.3	2.6	0.0	0.0	38.3	1.08	0.75	0.63	0.39	1.09	0.67
6.58	0.2	2.8	0.0	0.0	32.2	1.29	0.90	0.75	0.47	1.29	0.80
7.82	0.2	3.0	0.0	0.0	27.1	1.53	1.06	0.90	0.55	1.54	0.95
9.30	0.2	3.2	0.0	0.0	22.8	1.82	1.26	1.06	0.66	1.82	1.13
11.1	0.2	3.4	0.0	0.0	19.2	2.18	1.51	1.27	0.79	2.18	1.35
13.1	0.3	3.7	0.0	0.0	16.1	2.57	1.78	1.50	0.93	2.57	1.60
15.6	0.2	3.9	0.0	0.0	13.6	3.06	2.13	1.79	1.11	3.08	1.91

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
18.6	0.3	4.3	0.0	0.0	11.4	3.65	2.53	2.13	1.32	3.66	2.27
22.1	0.6	4.9	0.0	0.0	9.61	4.34	3.01	2.53	1.57	4.35	2.70
26.2	0.6	5.5	0.0	0.0	8.09	5.14	3.57	3.00	1.86	5.15	3.20
30.0	0.8	6.3	0.0	0.0	7.07	5.89	4.09	3.43	2.12	5.87	3.67
34.5	0.4	6.7	0.0	0.0	6.14	6.77	4.70	3.95	2.45	6.79	4.21
42.1	0.2	6.9	0.0	0.0	5.04	8.26	5.74	4.82	2.98	8.26	5.15
50.8	0.1	7.0	0.0	0.0	4.17	9.97	6.92	5.81	3.60	9.98	6.20
59.8	0.1	7.1	0.0	0.0	3.54	11.7	8.13	6.84	4.23	11.7	7.29
71.1	0.1	7.2	0.0	0.0	2.98	13.9	9.65	8.14	5.04	14.0	8.65
83.4	0.2	7.4	0.0	0.0	2.54	16.4	11.4	9.54	5.91	16.4	10.2
101	0.2	7.6	0.0	0.0	2.09	19.8	13.8	11.6	7.18	19.9	12.4
120	0.3	7.9	0.0	0.0	1.77	23.5	16.3	13.7	8.48	23.5	14.6
143	0.3	8.2	0.0	0.0	1.49	28.1	19.5	16.4	10.2	28.3	17.5
169	0.3	8.4	0.0	0.0	1.26	33.2	23.1	19.3	11.9	33.0	20.7
204	0.4	8.8	0.0	0.0	1.04	40.0	27.8	23.3	14.4	39.9	24.9
240	0.4	9.2	0.0	0.0	0.883	47.1	32.7	27.5	17.0	47.1	29.3
288	0.4	9.7	0.0	0.0	0.737	56.5	39.2	33.0	20.4	56.5	35.1
342	0.6	10.2	0.0	0.0	0.619	67.1	46.6	39.1	24.2	67.1	41.8
408	0.6	10.8	0.0	0.0	0.520	80.0	55.6	46.7	28.9	80.1	49.8
483	0.5	11.3	0.0	0.0	0.439	94.8	65.8	55.3	34.2	94.8	59.0
575	0.7	12.0	0.0	0.0	0.369	113	78.5	65.8	40.7	113	70.4
685	0.8	12.7	0.0	0.0	0.310	134	93.1	78.4	48.5	134	83.5
814	0.9	13.6	0.0	0.0	0.260	160	111	93.2	57.7	160	99.5
972	1.0	14.6	0.0	0.0	0.218	191	133	111	68.7	190	119
1149	1.1	15.7	0.0	0.0	0.184	225	156	131	81.1	225	140
1364	1.4	17.1	1.7	1.7	0.155	268	186	156	96.6	268	167
1621	1.8	18.9	2.1	3.8	0.131	318	221	186	115	319	198
1925	2.4	21.3	2.8	6.6	0.110	378	263	220	136	377	236
2286	2.7	24.0	3.2	9.8	0.0927	448	311	262	162	449	279
2717	2.7	26.7	3.2	13.1	0.0780	533	370	311	193	535	332
3227	3.1	29.8	3.7	16.7	0.0657	633	440	369	228	632	394
3832	3.7	33.5	4.4	21.1	0.0553	752	522	439	272	754	468
4549	4.3	37.8	5.1	26.2	0.0466	892	619	521	323	895	555
5402	4.4	42.2	5.2	31.4	0.0392	1060	736	618	383	1061	660
6418	4.4	46.6	5.2	36.7	0.0330	1259	874	734	454	1258	784

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
7621	4.7	51.3	5.5	42.2	0.0278	1495	1038	872	540	1496	931
9052	7.1	58.4	8.5	50.7	0.0234	1776	1233	1036	641	1776	1105
10750	6.3	64.7	7.5	58.1	0.0197	2109	1465	1230	761	2109	1313
12767	6.3	71.0	7.5	65.6	0.0166	2505	1740	1461	904	2505	1560
15163	5.8	76.8	6.8	72.4	0.0140	2975	2066	1735	1074	2976	1852
18006	5.4	82.2	6.4	78.9	0.0118	3533	2453	2061	1276	3536	2199
21386	4.3	86.5	5.1	84.0	0.0099	4196	2914	2447	1515	4198	2612
25398	4.5	91.0	5.3	89.3	0.0083	4983	3460	2907	1800	4988	3102
30162	3.3	94.2	3.9	93.2	0.0070	5917	4109	3452	2137	5921	3684
35815	2.3	96.5	2.7	95.8	0.0059	7026	4879	4099	2537	7030	4374
42529	2.6	99.1	3.1	98.9	0.0050	8344	5794	4867	3013	8349	5194
46870	0.8	99.9	0.9	99.9	0.0045	9195	6385	5364	3321	9202	5724
59945	0.1	100.0	0.1	100.0	0.0035	11760	8167	6860	4247	11768	7321

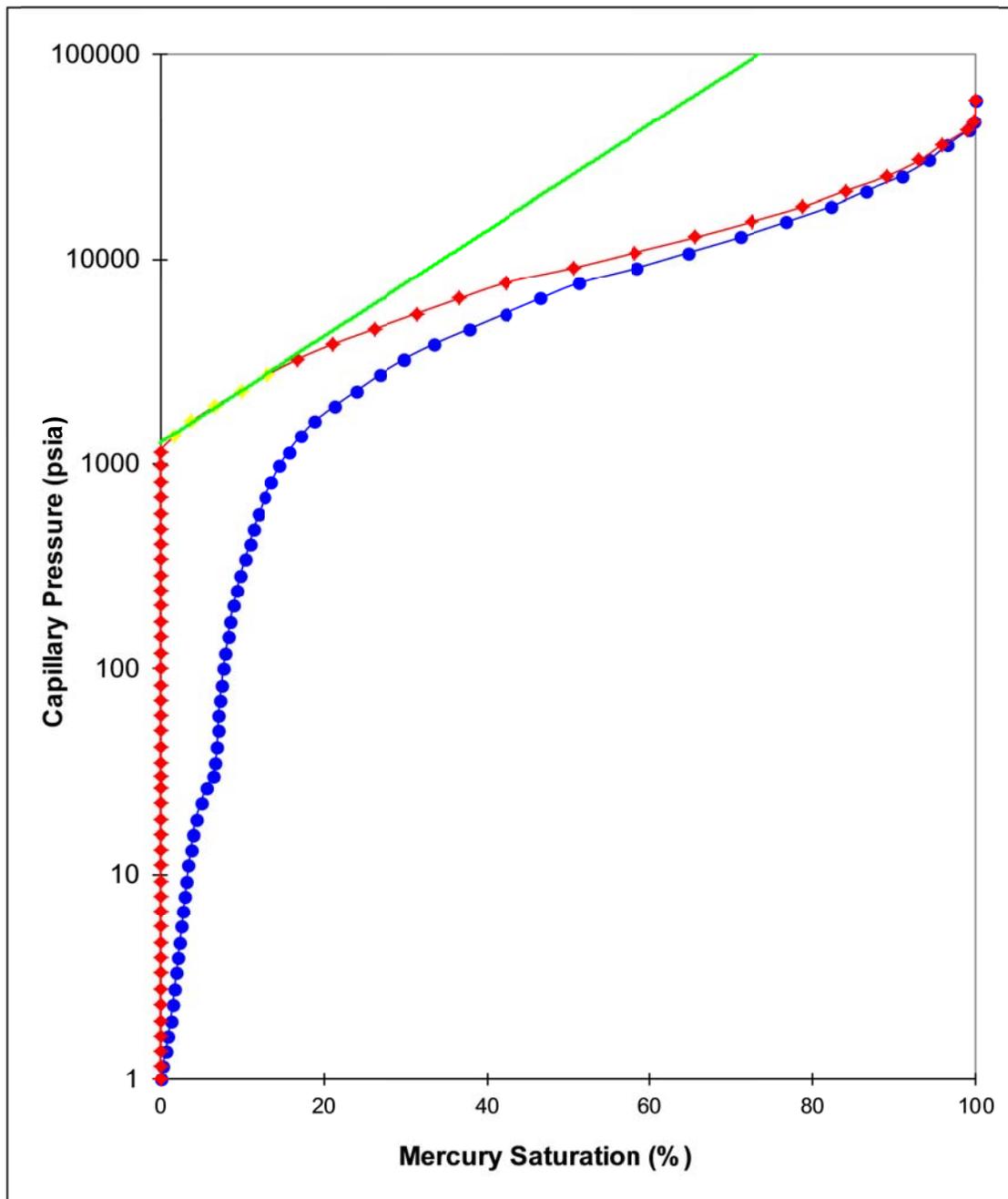
CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample R36 **Ambient Permeability** 0.023 mD
Depth 3875.60 m **Ambient Porosity** 2.2 %



PORE SIZE DISTRIBUTION

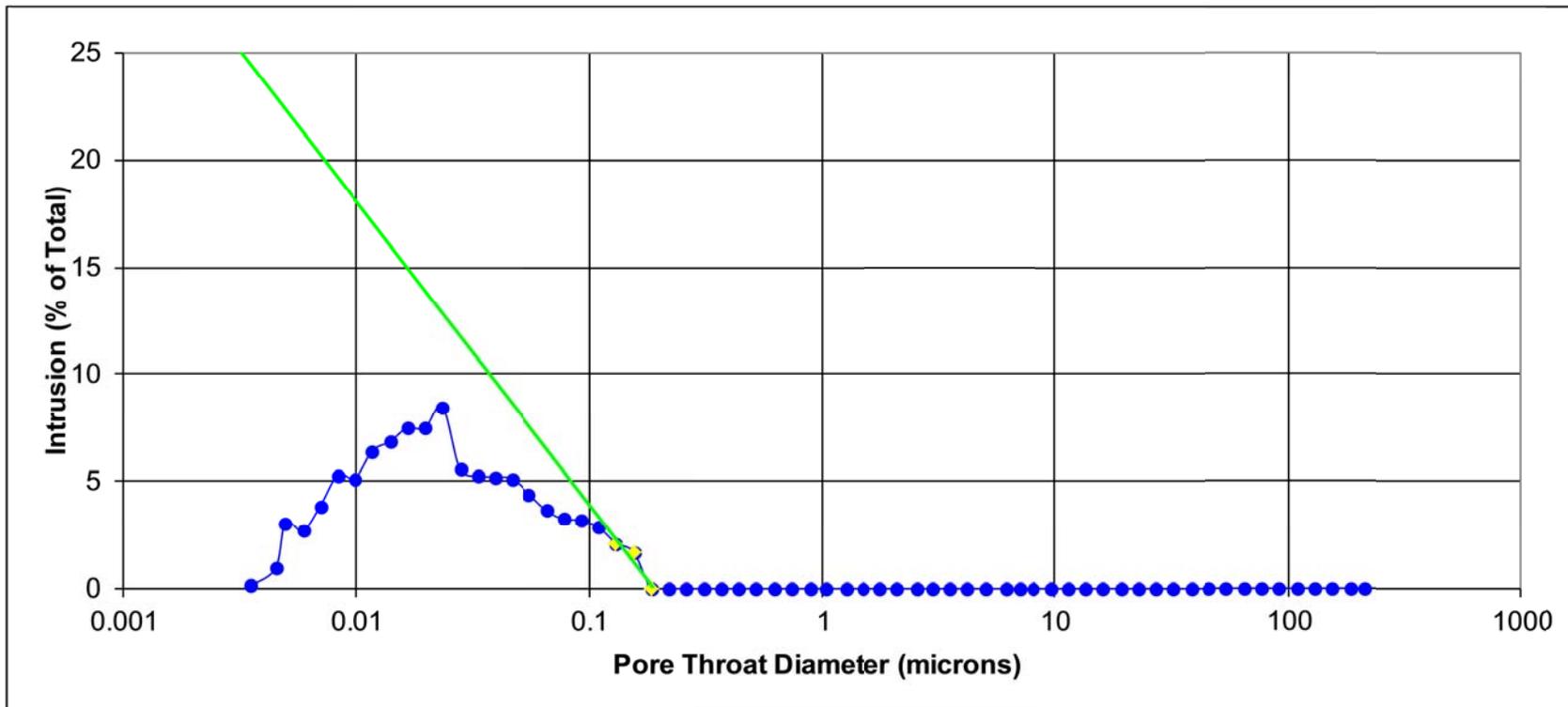


Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample R36
Depth 3875.60 m

Ambient Permeability 0.023 mD
Ambient Porosity 2.2 %



INTERPRETED CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2
Test Method Air/Mercury Capillary Pressure Drainage
Sample S14
Depth 3875.65 m
Ambient Permeability 0.0052 mD
Ambient Porosity 1.6 %
Pore radius 0.06 µm

Pressure Gradients, psi/foot		Conversion Parameters				
		Typical	Laboratory Θ	air/mercury	air/water	air/oil
Water:	0.440	Laboratory IFT	140	0.0	0.0	30.0
Oil:	0.330	Reservoir Θ	480	72.0	24.0	48.0
Gas:	0.100	Laboratory IFT		0.0		30.0
		Laboratory Tcos Θ	367	50.0		30.0
		Reservoir Tcos Θ		72.0	24.0	42.0
				50.0		26.0

System	Entry Pressure (psi)		Displacement Pressure (psi)		Threshold Pressure (psi)	
	Lab	Resv	Lab	Resv	Lab	Resv
A-Hg	1867	-	2153	-	4028	-
G-W	366	254	422	293	790	549
O-W	214	132	247	152	462	284

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
1.00	0.0	0.0	0.0	0.0	212	0.20	0.14	0.11	0.07	0.20	0.12
1.15	0.3	0.3	0.0	0.0	184	0.23	0.16	0.13	0.08	0.23	0.14
1.37	0.4	0.7	0.0	0.0	155	0.27	0.19	0.16	0.10	0.27	0.17
1.63	0.2	0.9	0.0	0.0	130	0.32	0.22	0.19	0.12	0.32	0.20
1.94	0.4	1.3	0.0	0.0	109	0.38	0.27	0.22	0.14	0.38	0.24
2.31	0.3	1.6	0.0	0.0	91.6	0.45	0.32	0.26	0.16	0.45	0.28
2.76	0.3	1.9	0.0	0.0	76.9	0.54	0.38	0.32	0.20	0.54	0.34
3.29	0.4	2.2	0.0	0.0	64.5	0.65	0.45	0.38	0.23	0.65	0.40
3.91	0.3	2.5	0.0	0.0	54.2	0.77	0.53	0.45	0.28	0.77	0.48
4.65	0.1	2.6	0.0	0.0	45.6	0.91	0.63	0.53	0.33	0.91	0.57
5.53	0.5	3.1	0.0	0.0	38.3	1.08	0.75	0.63	0.39	1.09	0.67
6.58	0.2	3.3	0.0	0.0	32.2	1.29	0.90	0.75	0.47	1.29	0.80
7.82	0.3	3.5	0.0	0.0	27.1	1.53	1.06	0.90	0.55	1.54	0.95
9.30	0.0	3.6	0.0	0.0	22.8	1.82	1.26	1.06	0.66	1.82	1.13
11.1	0.2	3.8	0.0	0.0	19.2	2.18	1.51	1.27	0.79	2.18	1.35
13.1	0.2	4.0	0.0	0.0	16.1	2.57	1.78	1.50	0.93	2.57	1.60
15.6	0.2	4.1	0.0	0.0	13.6	3.06	2.13	1.79	1.11	3.08	1.91

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
18.6	0.5	4.6	0.0	0.0	11.4	3.65	2.53	2.13	1.32	3.66	2.27
22.1	0.0	4.6	0.0	0.0	9.61	4.34	3.01	2.53	1.57	4.35	2.70
26.2	0.5	5.2	0.0	0.0	8.09	5.14	3.57	3.00	1.86	5.15	3.20
30.0	0.2	5.3	0.0	0.0	7.07	5.89	4.09	3.43	2.12	5.87	3.67
34.3	0.2	5.6	0.0	0.0	6.18	6.73	4.67	3.93	2.43	6.73	4.19
42.0	0.1	5.7	0.0	0.0	5.05	8.24	5.72	4.81	2.98	8.26	5.13
50.5	0.1	5.8	0.0	0.0	4.20	9.91	6.88	5.78	3.58	9.92	6.17
59.4	0.0	5.8	0.0	0.0	3.57	11.7	8.13	6.80	4.21	11.7	7.29
70.2	0.1	5.9	0.0	0.0	3.02	13.8	9.58	8.03	4.97	13.8	8.59
84.7	0.1	6.0	0.0	0.0	2.50	16.6	11.5	9.69	6.00	16.6	10.3
102	0.0	6.1	0.0	0.0	2.09	20.0	13.9	11.7	7.24	20.1	12.5
121	0.0	6.1	0.0	0.0	1.76	23.7	16.5	13.8	8.54	23.7	14.8
146	0.1	6.2	0.0	0.0	1.46	28.6	19.9	16.7	10.3	28.5	17.8
170	0.2	6.4	0.0	0.0	1.25	33.4	23.2	19.5	12.1	33.5	20.8
203	0.2	6.6	0.0	0.0	1.05	39.8	27.6	23.2	14.4	39.9	24.7
244	0.0	6.6	0.0	0.0	0.870	47.9	33.3	27.9	17.3	47.9	29.9
289	0.3	6.9	0.0	0.0	0.734	56.7	39.4	33.1	20.5	56.8	35.3
344	0.2	7.0	0.0	0.0	0.615	67.5	46.9	39.4	24.4	67.6	42.0
412	0.3	7.4	0.0	0.0	0.515	80.8	56.1	47.1	29.2	80.9	50.3
487	0.2	7.6	0.0	0.0	0.436	95.5	66.3	55.7	34.5	95.6	59.4
576	0.6	8.1	0.0	0.0	0.368	113	78.5	65.9	40.8	113	70.4
685	0.4	8.5	0.0	0.0	0.309	134	93.1	78.4	48.5	134	83.5
813	0.7	9.2	0.0	0.0	0.261	159	110	93.0	57.6	160	98.6
968	0.5	9.7	0.0	0.0	0.219	190	132	111	68.7	190	118
1149	0.6	10.3	0.0	0.0	0.185	225	156	131	81.1	225	140
1364	1.0	11.2	0.0	0.0	0.155	268	186	156	96.6	268	167
1622	1.0	12.3	0.0	0.0	0.131	318	221	186	115	319	198
1926	1.2	13.5	0.0	0.0	0.110	378	263	220	136	377	236
2288	1.4	14.9	1.7	1.7	0.0926	449	312	262	162	449	280
2716	1.6	16.5	1.9	3.5	0.0781	533	370	311	193	535	332
3227	2.1	18.6	2.4	5.9	0.0657	633	440	369	228	632	394
3831	2.3	20.9	2.6	8.6	0.0553	752	522	438	271	751	468
4548	3.4	24.3	4.0	12.6	0.0466	892	619	520	322	892	555
5402	3.4	27.8	4.0	16.5	0.0392	1060	736	618	383	1061	660
6418	5.0	32.8	5.8	22.3	0.0330	1259	874	734	454	1258	784

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
7623	4.6	37.4	5.3	27.6	0.0278	1496	1039	872	540	1496	931
9053	6.3	43.7	7.3	34.9	0.0234	1776	1233	1036	641	1776	1105
10751	7.3	51.0	8.4	43.4	0.0197	2109	1465	1230	761	2109	1313
12768	6.3	57.3	7.3	50.7	0.0166	2505	1740	1461	904	2505	1560
15164	6.6	63.9	7.7	58.3	0.0140	2975	2066	1735	1074	2976	1852
18008	6.8	70.8	7.9	66.2	0.0118	3533	2453	2061	1276	3536	2199
21388	7.2	77.9	8.3	74.5	0.0099	4196	2914	2448	1515	4198	2612
25400	4.5	82.4	5.2	79.7	0.0083	4983	3460	2907	1800	4988	3102
30166	5.1	87.5	5.9	85.6	0.0070	5918	4110	3452	2137	5921	3684
35819	3.2	90.8	3.7	89.3	0.0059	7027	4880	4099	2537	7030	4375
42538	5.6	96.3	6.4	95.7	0.0050	8345	5795	4868	3014	8352	5195
46894	3.2	99.5	3.7	99.4	0.0045	9200	6389	5367	3322	9205	5728
59950	0.5	100.0	0.6	100.0	0.0035	11761	8167	6861	4247	11768	7321

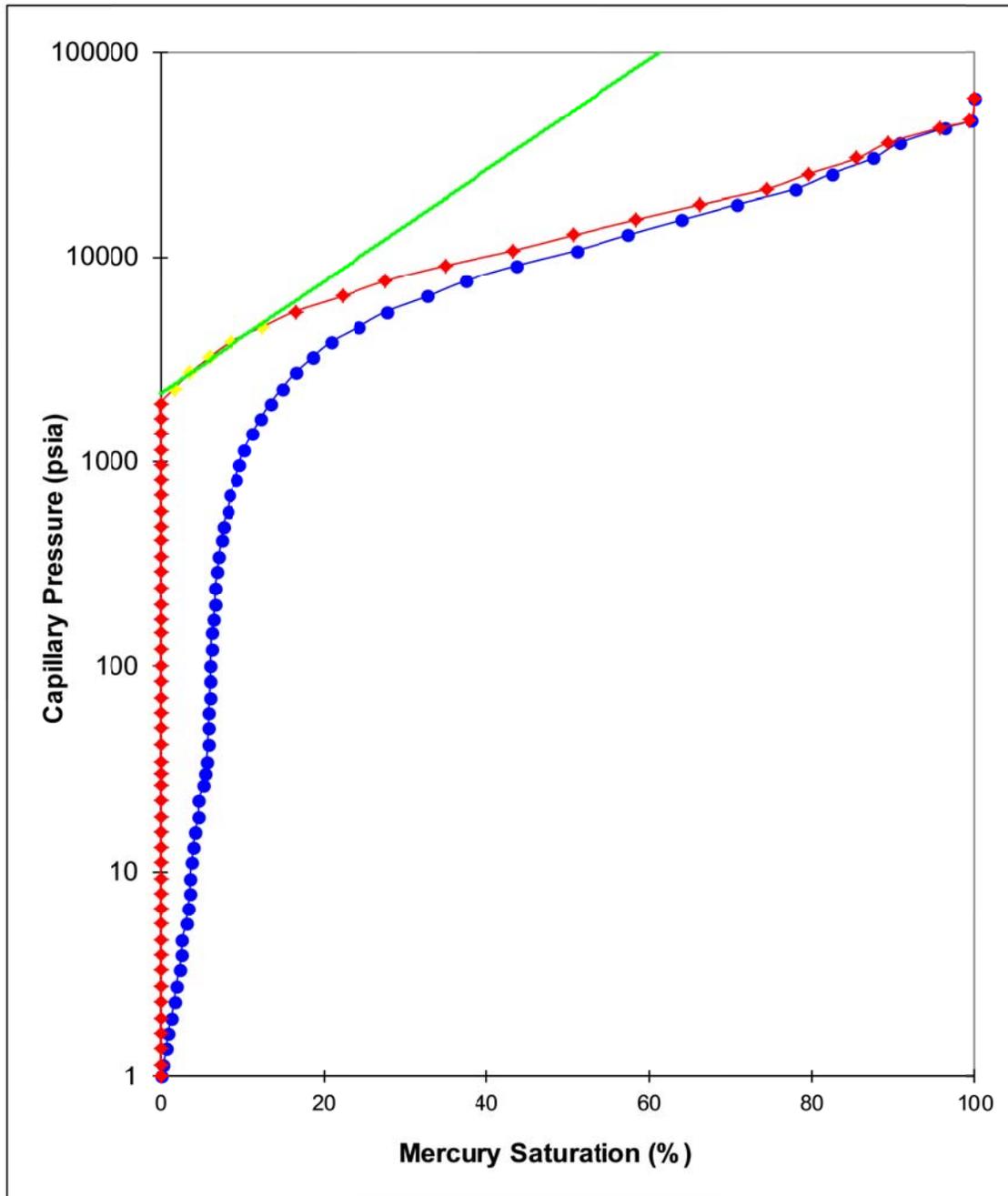
CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample S14 **Ambient Permeability** 0.0052 mD
Depth 3875.65 m **Ambient Porosity** 1.6 %



PORE SIZE DISTRIBUTION

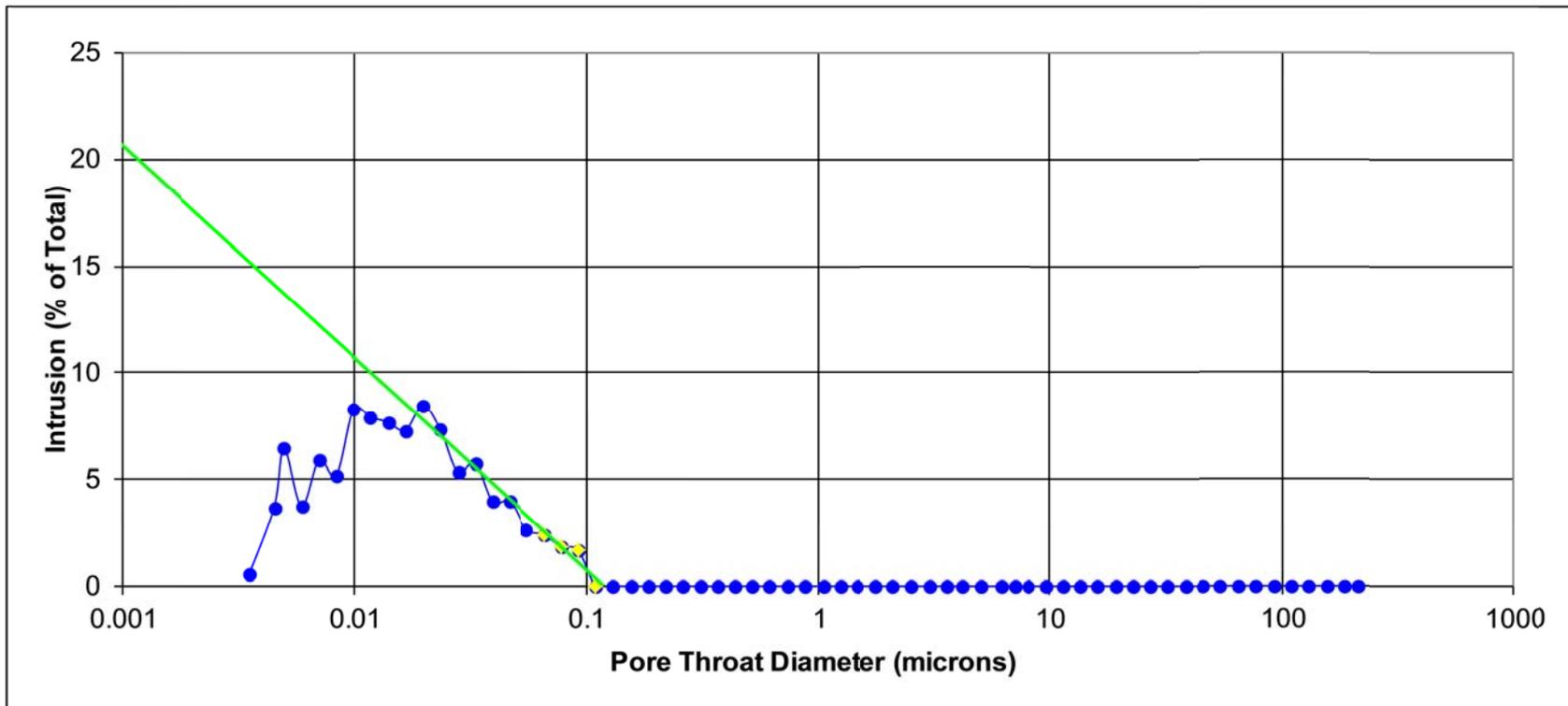


Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample S14
Depth 3875.65 m

Ambient Permeability 0.0052 mD
Ambient Porosity 1.6 %



INTERPRETED CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2
Test Method Air/Mercury Capillary Pressure Drainage
Sample R44
Depth 3883.31 m
Ambient Permeability 0.048 mD
Ambient Porosity 4.2 %
Pore radius 0.26 μm

Pressure Gradients, psi/foot		Conversion Parameters				
		Typical	air/mercury	air/water	air/oil	oil/water
Water:	0.440	Laboratory Θ	140	0.0	0.0	30.0
Oil:	0.330	Laboratory IFT	480	72.0	24.0	48.0
Gas:	0.100	Reservoir Θ		0.0		30.0
		Reservoir IFT		50.0		30.0
		Laboratory Tcos Θ	367	72.0	24.0	42.0
		Reservoir Tcos Θ		50.0		26.0
		Entry Pressure (psi)	Displacement Pressure (psi)		Threshold Pressure (psi)	
System	Lab	Resv	Lab	Resv	Lab	Resv
A-Hg	405	-	432	-	780	-
G-W	79.4	55.1	84.7	58.8	153	106
O-W	46.3	28.7	49.4	30.6	89.2	55.3

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (μm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
1.00	0.0	0.0	0.0	0.0	212	0.20	0.14	0.11	0.07	0.20	0.12
1.15	0.1	0.1	0.0	0.0	184	0.23	0.16	0.13	0.08	0.23	0.14
1.37	0.2	0.3	0.0	0.0	155	0.27	0.19	0.16	0.10	0.27	0.17
1.63	0.2	0.5	0.0	0.0	130	0.32	0.22	0.19	0.12	0.32	0.20
1.94	0.2	0.7	0.0	0.0	109	0.38	0.27	0.22	0.14	0.38	0.24
2.31	0.2	0.9	0.0	0.0	91.6	0.45	0.32	0.26	0.16	0.45	0.28
2.76	0.2	1.1	0.0	0.0	76.9	0.54	0.38	0.32	0.20	0.54	0.34
3.28	0.2	1.2	0.0	0.0	64.6	0.64	0.45	0.38	0.23	0.64	0.40
3.91	0.2	1.5	0.0	0.0	54.3	0.77	0.53	0.45	0.28	0.77	0.48
4.65	0.1	1.6	0.0	0.0	45.6	0.91	0.63	0.53	0.33	0.91	0.57
5.53	0.2	1.8	0.0	0.0	38.3	1.08	0.75	0.63	0.39	1.09	0.67
6.58	0.1	1.9	0.0	0.0	32.2	1.29	0.90	0.75	0.47	1.29	0.80
7.82	0.2	2.1	0.0	0.0	27.1	1.53	1.06	0.90	0.55	1.54	0.95
9.30	0.2	2.2	0.0	0.0	22.8	1.82	1.26	1.06	0.66	1.82	1.13
11.1	0.1	2.4	0.0	0.0	19.2	2.18	1.51	1.27	0.79	2.18	1.35
13.1	0.2	2.5	0.0	0.0	16.1	2.57	1.78	1.50	0.93	2.57	1.60
15.6	0.2	2.7	0.0	0.0	13.6	3.06	2.13	1.79	1.11	3.08	1.91

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
18.6	0.2	2.9	0.0	0.0	11.4	3.65	2.53	2.13	1.32	3.66	2.27
22.1	0.3	3.2	0.0	0.0	9.61	4.34	3.01	2.53	1.57	4.35	2.70
26.2	0.3	3.5	0.0	0.0	8.09	5.14	3.57	3.00	1.86	5.15	3.20
30.0	0.3	3.7	0.0	0.0	7.07	5.89	4.09	3.43	2.12	5.87	3.67
34.3	0.0	3.7	0.0	0.0	6.18	6.73	4.67	3.93	2.43	6.73	4.19
41.4	0.1	3.8	0.0	0.0	5.13	8.12	5.64	4.74	2.93	8.12	5.06
48.5	0.1	3.9	0.0	0.0	4.37	9.51	6.60	5.55	3.44	9.53	5.92
59.5	0.1	4.0	0.0	0.0	3.56	11.7	8.13	6.81	4.22	11.7	7.29
72.3	0.2	4.2	0.0	0.0	2.93	14.2	9.86	8.27	5.12	14.2	8.84
84.1	0.2	4.4	0.0	0.0	2.52	16.5	11.5	9.62	5.96	16.5	10.3
101	0.3	4.7	0.0	0.0	2.10	19.8	13.8	11.6	7.18	19.9	12.4
120	0.3	5.0	0.0	0.0	1.77	23.5	16.3	13.7	8.48	23.5	14.6
144	0.4	5.4	0.0	0.0	1.47	28.3	19.7	16.5	10.2	28.3	17.7
171	0.4	5.9	0.0	0.0	1.24	33.5	23.3	19.6	12.1	33.5	20.9
205	0.4	6.2	0.0	0.0	1.04	40.2	27.9	23.5	14.5	40.2	25.0
242	0.5	6.8	0.0	0.0	0.876	47.5	33.0	27.7	17.1	47.4	29.6
288	0.7	7.5	0.0	0.0	0.735	56.5	39.2	33.0	20.4	56.5	35.1
343	0.9	8.4	0.0	0.0	0.618	67.3	46.7	39.3	24.3	67.3	41.9
408	1.3	9.7	0.0	0.0	0.520	80.0	55.6	46.7	28.9	80.1	49.8
486	1.7	11.4	1.9	1.9	0.437	95.3	66.2	55.6	34.4	95.3	59.3
575	2.6	14.0	2.9	4.8	0.369	113	78.5	65.8	40.7	113	70.4
686	2.9	16.9	3.2	8.0	0.309	135	93.8	78.5	48.6	135	84.1
813	2.6	19.6	2.9	11.0	0.261	159	110	93.0	57.6	160	98.6
966	2.2	21.8	2.4	13.4	0.219	190	132	111	68.7	190	118
1149	2.0	23.8	2.2	15.6	0.185	225	156	131	81.1	225	140
1364	1.8	25.6	2.0	17.6	0.155	268	186	156	96.6	268	167
1621	1.8	27.5	2.0	19.7	0.131	318	221	186	115	319	198
1925	1.8	29.2	2.0	21.6	0.110	378	263	220	136	377	236
2287	1.7	30.9	1.8	23.5	0.0927	449	312	262	162	449	280
2717	1.8	32.7	2.0	25.5	0.0780	533	370	311	193	535	332
3228	1.8	34.6	2.0	27.5	0.0657	633	440	369	228	632	394
3831	2.0	36.6	2.3	29.8	0.0553	752	522	438	271	751	468
4547	2.2	38.8	2.4	32.2	0.0466	892	619	520	322	892	555
5403	2.9	41.6	3.2	35.4	0.0392	1060	736	618	383	1061	660
6418	3.5	45.1	3.8	39.2	0.0330	1259	874	734	454	1258	784

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
7621	4.5	49.6	5.0	44.2	0.0278	1495	1038	872	540	1496	931
9052	5.8	55.5	6.4	50.7	0.0234	1776	1233	1036	641	1776	1105
10750	6.9	62.3	7.6	58.3	0.0197	2109	1465	1230	761	2109	1313
12768	7.0	69.4	7.8	66.1	0.0166	2505	1740	1461	904	2505	1560
15163	6.1	75.5	6.8	72.9	0.0140	2975	2066	1735	1074	2976	1852
18005	5.3	80.8	5.9	78.8	0.0118	3532	2453	2061	1276	3536	2199
21385	5.7	86.5	6.3	85.1	0.0099	4195	2913	2447	1515	4198	2611
25395	3.3	89.8	3.7	88.7	0.0083	4982	3460	2906	1799	4985	3102
30160	3.3	93.2	3.7	92.4	0.0070	5917	4109	3452	2137	5921	3684
35817	2.8	96.0	3.1	95.5	0.0059	7027	4880	4099	2537	7030	4375
42523	2.2	98.2	2.5	98.0	0.0050	8342	5793	4866	3012	8346	5193
46873	1.0	99.2	1.1	99.1	0.0045	9196	6386	5364	3321	9202	5725
59949	0.8	100.0	0.9	100.0	0.0035	11761	8167	6861	4247	11768	7321

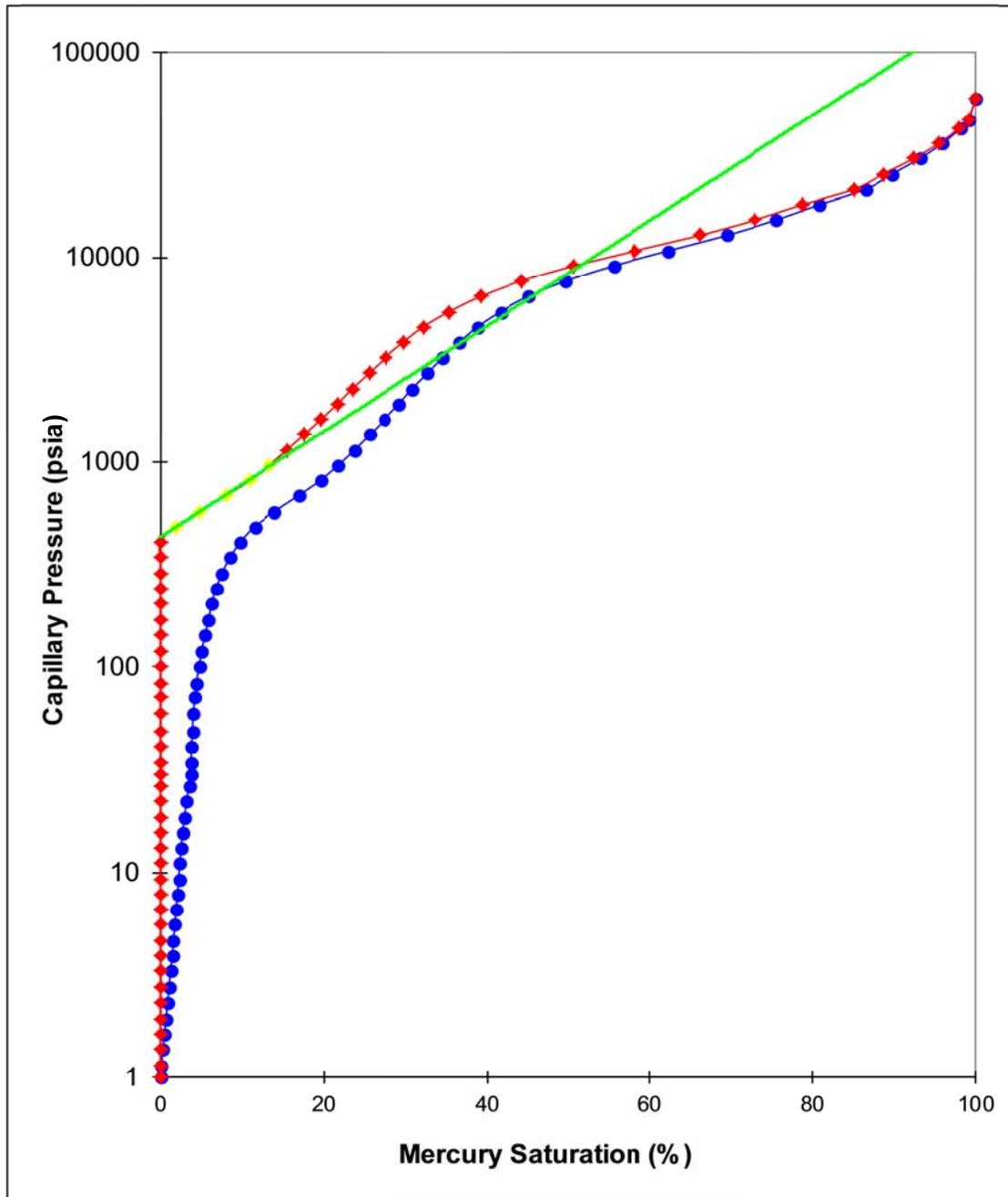
CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample R44 **Ambient Permeability** 0.048 mD
Depth 3883.31 m **Ambient Porosity** 4.2 %



PORE SIZE DISTRIBUTION

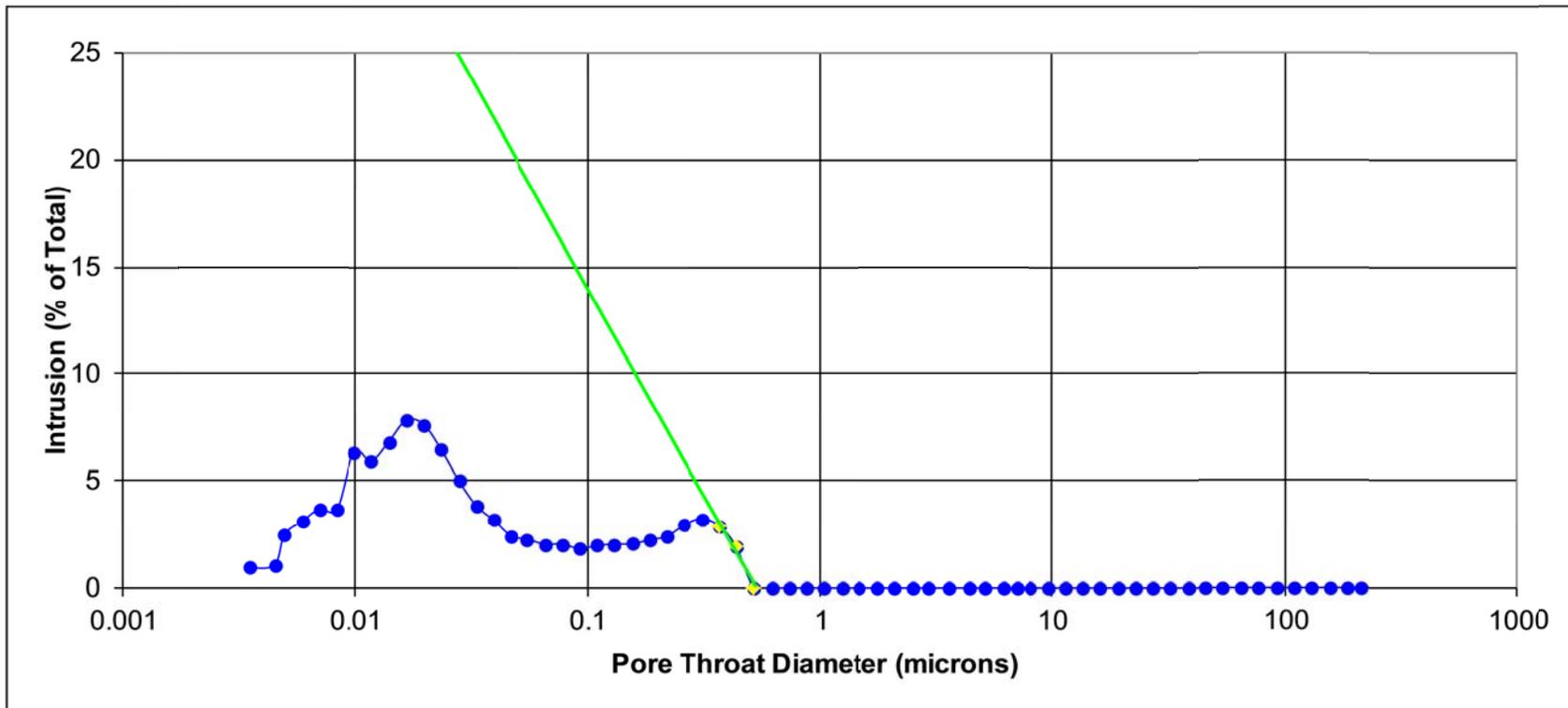


Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample R44
Depth 3883.31 m

Ambient Permeability 0.048 mD
Ambient Porosity 4.2 %



INTERPRETED CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2
Test Method Air/Mercury Capillary Pressure Drainage
Sample S17
Depth 3883.36 m
Ambient Permeability 0.15 mD
Ambient Porosity 4.5 %
Pore radius 0.37 µm

Pressure Gradients, psi/foot		Conversion Parameters				
		Typical	air/mercury	air/water	air/oil	oil/water
Water:	0.440	Laboratory Θ	140	0.0	0.0	30.0
Oil:	0.330	Laboratory IFT	480	72.0	24.0	48.0
Gas:	0.100	Reservoir Θ		0.0		30.0
		Reservoir IFT		50.0		30.0
		Laboratory Tcos Θ	367	72.0	24.0	42.0
		Reservoir Tcos Θ		50.0		26.0
		Entry Pressure (psi)	Displacement Pressure (psi)		Threshold Pressure (psi)	
System	Lab	Resv	Lab	Resv	Lab	Resv
A-Hg	286	-	296	-	523	-
G-W	56.1	39.0	58.1	40.4	103	71.6
O-W	32.7	20.3	33.8	21.0	59.7	37.1

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
1.00	0.0	0.0	0.0	0.0	212	0.20	0.14	0.11	0.07	0.20	0.12
1.15	0.1	0.1	0.0	0.0	184	0.23	0.16	0.13	0.08	0.23	0.14
1.37	0.1	0.2	0.0	0.0	155	0.27	0.19	0.16	0.10	0.27	0.17
1.63	0.0	0.2	0.0	0.0	130	0.32	0.22	0.19	0.12	0.32	0.20
1.94	0.1	0.4	0.0	0.0	109	0.38	0.27	0.22	0.14	0.38	0.24
2.31	0.1	0.5	0.0	0.0	91.6	0.45	0.32	0.26	0.16	0.45	0.28
2.76	0.1	0.5	0.0	0.0	76.9	0.54	0.38	0.32	0.20	0.54	0.34
3.29	0.1	0.6	0.0	0.0	64.5	0.65	0.45	0.38	0.23	0.65	0.40
3.91	0.1	0.7	0.0	0.0	54.2	0.77	0.53	0.45	0.28	0.77	0.48
4.65	0.0	0.8	0.0	0.0	45.6	0.91	0.63	0.53	0.33	0.91	0.57
5.53	0.1	0.9	0.0	0.0	38.3	1.08	0.75	0.63	0.39	1.09	0.67
6.58	0.1	1.0	0.0	0.0	32.2	1.29	0.90	0.75	0.47	1.29	0.80
7.82	0.1	1.1	0.0	0.0	27.1	1.53	1.06	0.90	0.55	1.54	0.95
9.30	0.0	1.1	0.0	0.0	22.8	1.82	1.26	1.06	0.66	1.82	1.13
11.1	0.1	1.2	0.0	0.0	19.2	2.18	1.51	1.27	0.79	2.18	1.35
13.1	0.1	1.3	0.0	0.0	16.1	2.57	1.78	1.50	0.93	2.57	1.60
15.6	0.1	1.5	0.0	0.0	13.6	3.06	2.13	1.79	1.11	3.08	1.91

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
18.6	0.2	1.7	0.0	0.0	11.4	3.65	2.53	2.13	1.32	3.66	2.27
22.1	0.1	1.8	0.0	0.0	9.61	4.34	3.01	2.53	1.57	4.35	2.70
26.2	0.3	2.1	0.0	0.0	8.09	5.14	3.57	3.00	1.86	5.15	3.20
30.0	0.7	2.7	0.0	0.0	7.07	5.89	4.09	3.43	2.12	5.87	3.67
35.3	0.1	2.8	0.0	0.0	6.01	6.93	4.81	4.04	2.50	6.93	4.31
41.9	0.0	2.8	0.0	0.0	5.06	8.22	5.71	4.80	2.97	8.23	5.12
50.4	0.3	3.1	0.0	0.0	4.20	9.89	6.87	5.77	3.57	9.89	6.16
59.3	0.1	3.2	0.0	0.0	3.57	11.6	8.06	6.79	4.20	11.6	7.23
70.2	0.1	3.3	0.0	0.0	3.02	13.8	9.58	8.03	4.97	13.8	8.59
84.7	0.3	3.6	0.0	0.0	2.50	16.6	11.5	9.69	6.00	16.6	10.3
102	0.2	3.8	0.0	0.0	2.09	20.0	13.9	11.7	7.24	20.1	12.5
121	0.4	4.2	0.0	0.0	1.76	23.7	16.5	13.8	8.54	23.7	14.8
145	0.6	4.7	0.0	0.0	1.46	28.4	19.7	16.6	10.3	28.5	17.7
170	0.3	5.0	0.0	0.0	1.25	33.4	23.2	19.5	12.1	33.5	20.8
203	0.4	5.4	0.0	0.0	1.05	39.8	27.6	23.2	14.4	39.9	24.7
244	0.6	6.0	0.0	0.0	0.870	47.9	33.3	27.9	17.3	47.9	29.9
289	1.2	7.2	0.0	0.0	0.734	56.7	39.4	33.1	20.5	56.8	35.3
344	2.4	9.6	2.6	2.6	0.616	67.5	46.9	39.4	24.4	67.6	42.0
412	3.1	12.6	3.3	5.9	0.515	80.8	56.1	47.1	29.2	80.9	50.3
486	2.6	15.2	2.8	8.7	0.436	95.3	66.2	55.6	34.4	95.3	59.3
576	2.6	17.8	2.8	11.5	0.368	113	78.5	65.9	40.8	113	70.4
685	2.2	20.0	2.4	13.8	0.310	134	93.1	78.4	48.5	134	83.5
813	2.2	22.2	2.4	16.2	0.261	159	110	93.0	57.6	160	98.6
967	2.0	24.2	2.1	18.3	0.219	190	132	111	68.7	190	118
1148	1.9	26.1	2.1	20.4	0.185	225	156	131	81.1	225	140
1364	1.9	28.0	2.0	22.4	0.155	268	186	156	96.6	268	167
1621	1.8	29.8	1.9	24.3	0.131	318	221	186	115	319	198
1925	1.7	31.5	1.9	26.2	0.110	378	263	220	136	377	236
2287	1.7	33.2	1.8	28.0	0.0927	449	312	262	162	449	280
2715	1.7	34.9	1.8	29.8	0.0781	533	370	311	193	535	332
3226	1.8	36.6	1.9	31.7	0.0657	633	440	369	228	632	394
3830	1.8	38.5	2.0	33.7	0.0554	751	522	438	271	751	468
4547	2.2	40.7	2.4	36.1	0.0466	892	619	520	322	892	555
5401	2.3	43.0	2.5	38.6	0.0393	1060	736	618	383	1061	660
6417	3.2	46.2	3.4	42.0	0.0330	1259	874	734	454	1258	784

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
7622	3.7	49.9	4.0	46.0	0.0278	1495	1038	872	540	1496	931
9051	5.0	55.0	5.4	51.5	0.0234	1776	1233	1036	641	1776	1105
10750	6.0	61.0	6.5	58.0	0.0197	2109	1465	1230	761	2109	1313
12767	5.9	66.9	6.3	64.3	0.0166	2505	1740	1461	904	2505	1560
15162	6.0	72.9	6.5	70.8	0.0140	2975	2066	1735	1074	2976	1852
18006	5.5	78.3	5.9	76.6	0.0118	3533	2453	2061	1276	3536	2199
21386	5.2	83.6	5.6	82.3	0.0099	4196	2914	2447	1515	4198	2612
25399	3.9	87.5	4.2	86.5	0.0083	4983	3460	2907	1800	4988	3102
30164	3.6	91.1	3.9	90.4	0.0070	5918	4110	3452	2137	5921	3684
35817	2.4	93.5	2.6	93.0	0.0059	7027	4880	4099	2537	7030	4375
42536	3.2	96.7	3.4	96.4	0.0050	8345	5795	4868	3014	8352	5195
46892	2.0	98.6	2.1	98.5	0.0045	9200	6389	5366	3322	9205	5728
59947	1.4	100.0	1.5	100.0	0.0035	11761	8167	6860	4247	11768	7321

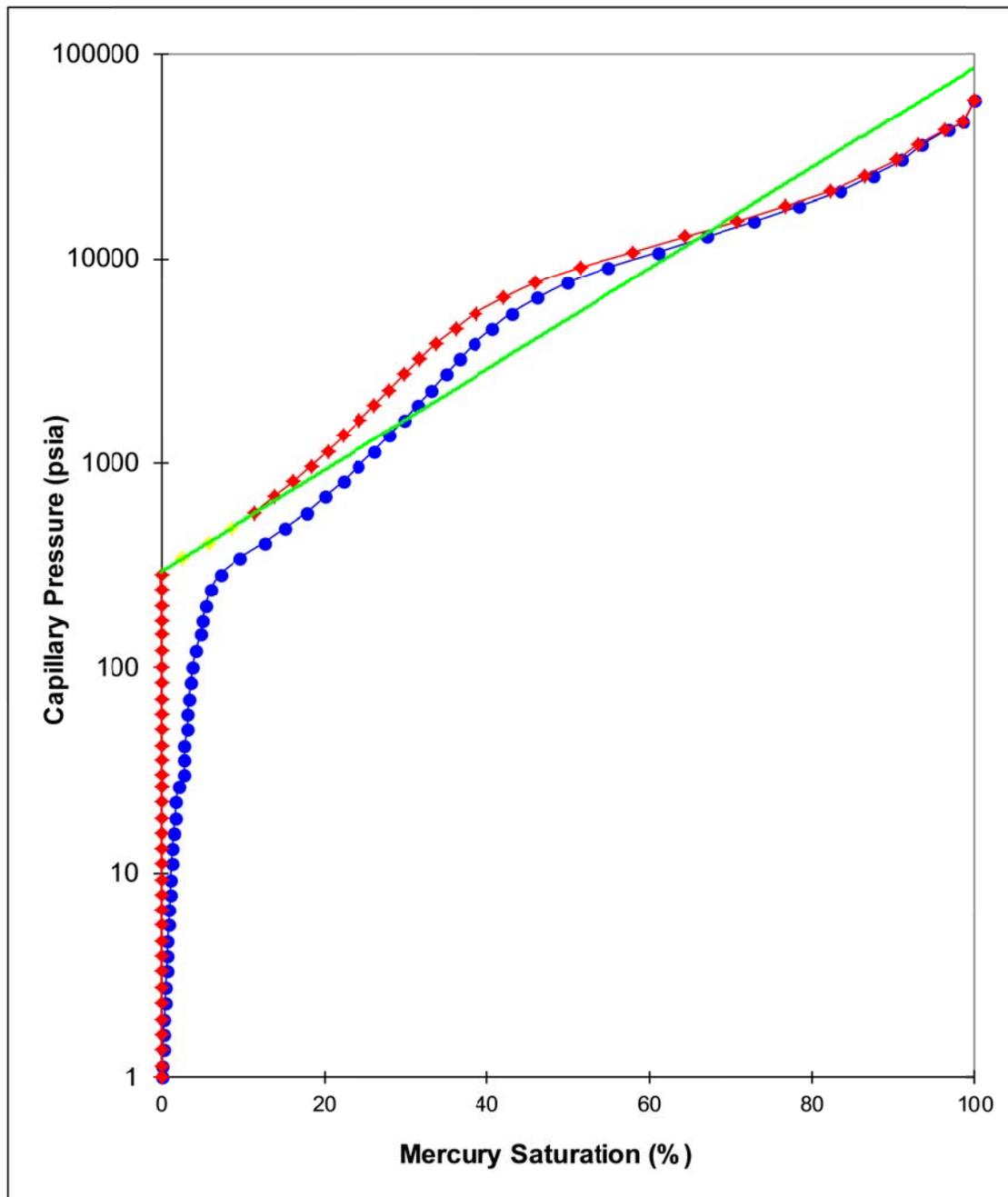
CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample S17 **Ambient Permeability** 0.15 mD
Depth 3883.36 m **Ambient Porosity** 4.5 %



PORE SIZE DISTRIBUTION

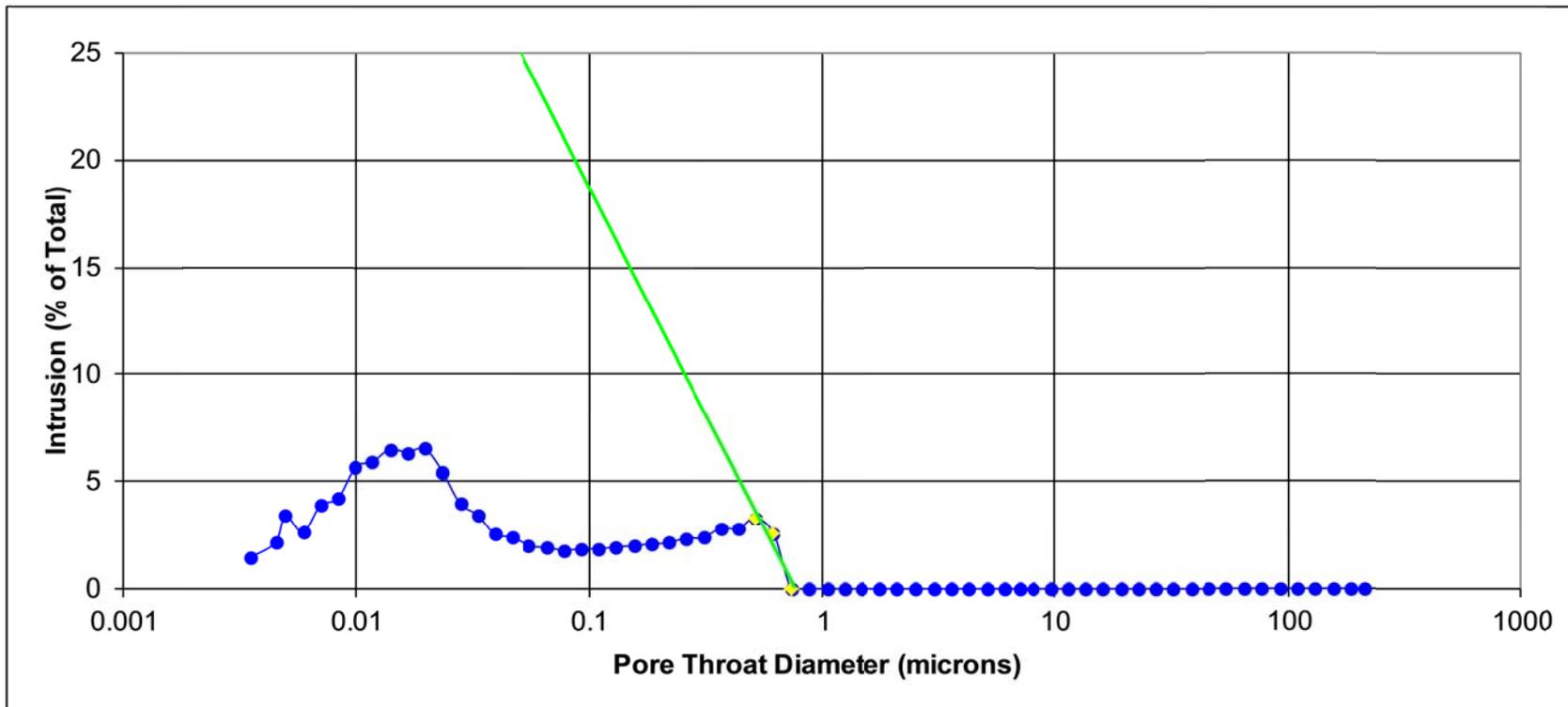


Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample S17
Depth 3883.36 m

Ambient Permeability 0.15 mD
Ambient Porosity 4.5 %



INTERPRETED CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2
Test Method Air/Mercury Capillary Pressure Drainage
Sample R46
Depth 3884.46 m
Ambient Permeability 0.29 mD
Ambient Porosity 9.0 %
Pore radius 0.89 µm

Pressure Gradients, psi/foot		Conversion Parameters				
		Typical	air/mercury	air/water	air/oil	oil/water
Water:	0.440	Laboratory Θ	140	0.0	0.0	30.0
Oil:	0.330	Laboratory IFT	480	72.0	24.0	48.0
Gas:	0.100	Reservoir Θ		0.0		30.0
		Reservoir IFT		50.0		30.0
		Laboratory Tcos Θ	367	72.0	24.0	42.0
		Reservoir Tcos Θ		50.0		26.0
		Entry Pressure (psi)	Displacement Pressure (psi)		Threshold Pressure (psi)	
System	Lab	Resv	Lab	Resv	Lab	Resv
A-Hg	120	-	126	-	209	-
G-W	23.5	16.3	24.7	17.1	41.0	28.4
O-W	13.7	8.50	14.4	8.93	23.9	14.8

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
1.00	0.0	0.0	0.0	0.0	212	0.20	0.14	0.11	0.07	0.20	0.12
1.15	0.1	0.1	0.0	0.0	184	0.23	0.16	0.13	0.08	0.23	0.14
1.37	0.2	0.3	0.0	0.0	155	0.27	0.19	0.16	0.10	0.27	0.17
1.63	0.2	0.5	0.0	0.0	130	0.32	0.22	0.19	0.12	0.32	0.20
1.94	0.2	0.7	0.0	0.0	109	0.38	0.27	0.22	0.14	0.38	0.24
2.31	0.2	0.9	0.0	0.0	91.7	0.45	0.32	0.26	0.16	0.45	0.28
2.76	0.8	1.7	0.0	0.0	76.9	0.54	0.38	0.32	0.20	0.54	0.34
3.28	0.4	2.2	0.0	0.0	64.6	0.64	0.45	0.38	0.23	0.64	0.40
3.91	0.7	2.8	0.0	0.0	54.2	0.77	0.53	0.45	0.28	0.77	0.48
4.65	0.4	3.2	0.0	0.0	45.6	0.91	0.63	0.53	0.33	0.91	0.57
5.53	0.4	3.6	0.0	0.0	38.3	1.08	0.75	0.63	0.39	1.09	0.67
6.58	0.3	3.9	0.0	0.0	32.2	1.29	0.90	0.75	0.47	1.29	0.80
7.82	0.3	4.2	0.0	0.0	27.1	1.53	1.06	0.90	0.55	1.54	0.95
9.30	0.3	4.5	0.0	0.0	22.8	1.82	1.26	1.06	0.66	1.82	1.13
11.1	0.4	4.8	0.0	0.0	19.2	2.18	1.51	1.27	0.79	2.18	1.35
13.1	0.3	5.1	0.0	0.0	16.1	2.57	1.78	1.50	0.93	2.57	1.60
15.6	0.3	5.4	0.0	0.0	13.6	3.06	2.13	1.79	1.11	3.08	1.91

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
18.6	0.3	5.8	0.0	0.0	11.4	3.65	2.53	2.13	1.32	3.66	2.27
22.1	0.3	6.1	0.0	0.0	9.61	4.34	3.01	2.53	1.57	4.35	2.70
26.2	0.4	6.5	0.0	0.0	8.09	5.14	3.57	3.00	1.86	5.15	3.20
30.0	0.3	6.8	0.0	0.0	7.07	5.89	4.09	3.43	2.12	5.87	3.67
35.3	0.0	6.8	0.0	0.0	6.00	6.93	4.81	4.04	2.50	6.93	4.31
41.8	0.0	6.8	0.0	0.0	5.07	8.20	5.69	4.78	2.96	8.20	5.10
48.4	0.0	6.9	0.0	0.0	4.38	9.50	6.60	5.54	3.43	9.50	5.92
60.7	0.3	7.2	0.0	0.0	3.49	11.9	8.26	6.95	4.30	11.9	7.40
70.4	0.4	7.6	0.0	0.0	3.01	13.8	9.58	8.06	4.99	13.8	8.59
84.0	0.6	8.2	0.0	0.0	2.52	16.5	11.5	9.61	5.95	16.5	10.3
101	0.8	9.0	0.0	0.0	2.10	19.8	13.8	11.6	7.18	19.9	12.4
120	1.2	10.2	0.0	0.0	1.77	23.5	16.3	13.7	8.48	23.5	14.6
142	1.9	12.1	2.1	2.1	1.50	27.9	19.4	16.3	10.1	28.0	17.4
170	3.8	15.9	4.2	6.3	1.25	33.4	23.2	19.5	12.1	33.5	20.8
204	3.1	19.0	3.5	9.8	1.04	40.0	27.8	23.3	14.4	39.9	24.9
241	2.4	21.4	2.7	12.5	0.879	47.3	32.8	27.6	17.1	47.4	29.4
287	2.2	23.6	2.4	14.9	0.739	56.3	39.1	32.8	20.3	56.2	35.1
341	2.0	25.6	2.2	17.2	0.622	66.9	46.5	39.0	24.1	66.8	41.7
409	1.9	27.5	2.1	19.3	0.518	80.2	55.7	46.8	29.0	80.4	49.9
483	1.6	29.1	1.8	21.0	0.439	94.8	65.8	55.3	34.2	94.8	59.0
577	1.6	30.7	1.7	22.8	0.368	113	78.5	66.0	40.9	113	70.4
684	1.4	32.1	1.5	24.3	0.310	134	93.1	78.3	48.5	134	83.5
812	1.4	33.4	1.5	25.9	0.261	159	110	92.9	57.5	159	98.6
969	1.5	34.9	1.6	27.5	0.219	190	132	111	68.7	190	118
1147	1.5	36.4	1.6	29.1	0.185	225	156	131	81.1	225	140
1366	1.7	38.1	1.9	31.0	0.155	268	186	156	96.6	268	167
1619	1.8	39.8	2.0	33.0	0.131	318	221	185	115	319	198
1925	1.9	41.8	2.2	35.2	0.110	378	263	220	136	377	236
2286	2.1	43.9	2.3	37.5	0.0927	448	311	262	162	449	279
2715	2.5	46.3	2.7	40.2	0.0781	533	370	311	193	535	332
3226	2.7	49.1	3.0	43.3	0.0657	633	440	369	228	632	394
3831	3.1	52.2	3.5	46.7	0.0553	752	522	438	271	751	468
4542	3.1	55.2	3.4	50.1	0.0467	891	619	520	322	892	555
5401	3.5	58.7	3.9	54.0	0.0393	1060	736	618	383	1061	660
6416	3.7	62.4	4.1	58.1	0.0330	1259	874	734	454	1258	784

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
7622	4.2	66.6	4.7	62.8	0.0278	1495	1038	872	540	1496	931
9051	4.3	70.9	4.8	67.6	0.0234	1776	1233	1036	641	1776	1105
10748	4.9	75.8	5.5	73.1	0.0197	2109	1465	1230	761	2109	1313
12765	5.3	81.1	5.9	78.9	0.0166	2504	1739	1461	904	2505	1559
15161	4.5	85.6	5.0	83.9	0.0140	2974	2065	1735	1074	2976	1851
18005	4.3	89.8	4.7	88.7	0.0118	3532	2453	2061	1276	3536	2199
21381	2.6	92.5	2.9	91.6	0.0099	4195	2913	2447	1515	4198	2611
25393	2.1	94.6	2.4	94.0	0.0083	4982	3460	2906	1799	4985	3102
30161	1.8	96.4	2.0	96.0	0.0070	5917	4109	3452	2137	5921	3684
35818	1.5	97.9	1.6	97.6	0.0059	7027	4880	4099	2537	7030	4375
42529	1.0	98.9	1.1	98.7	0.0050	8344	5794	4867	3013	8349	5194
46881	0.5	99.3	0.5	99.3	0.0045	9197	6387	5365	3321	9202	5726
59949	0.7	100.0	0.7	100.0	0.0035	11761	8167	6861	4247	11768	7321

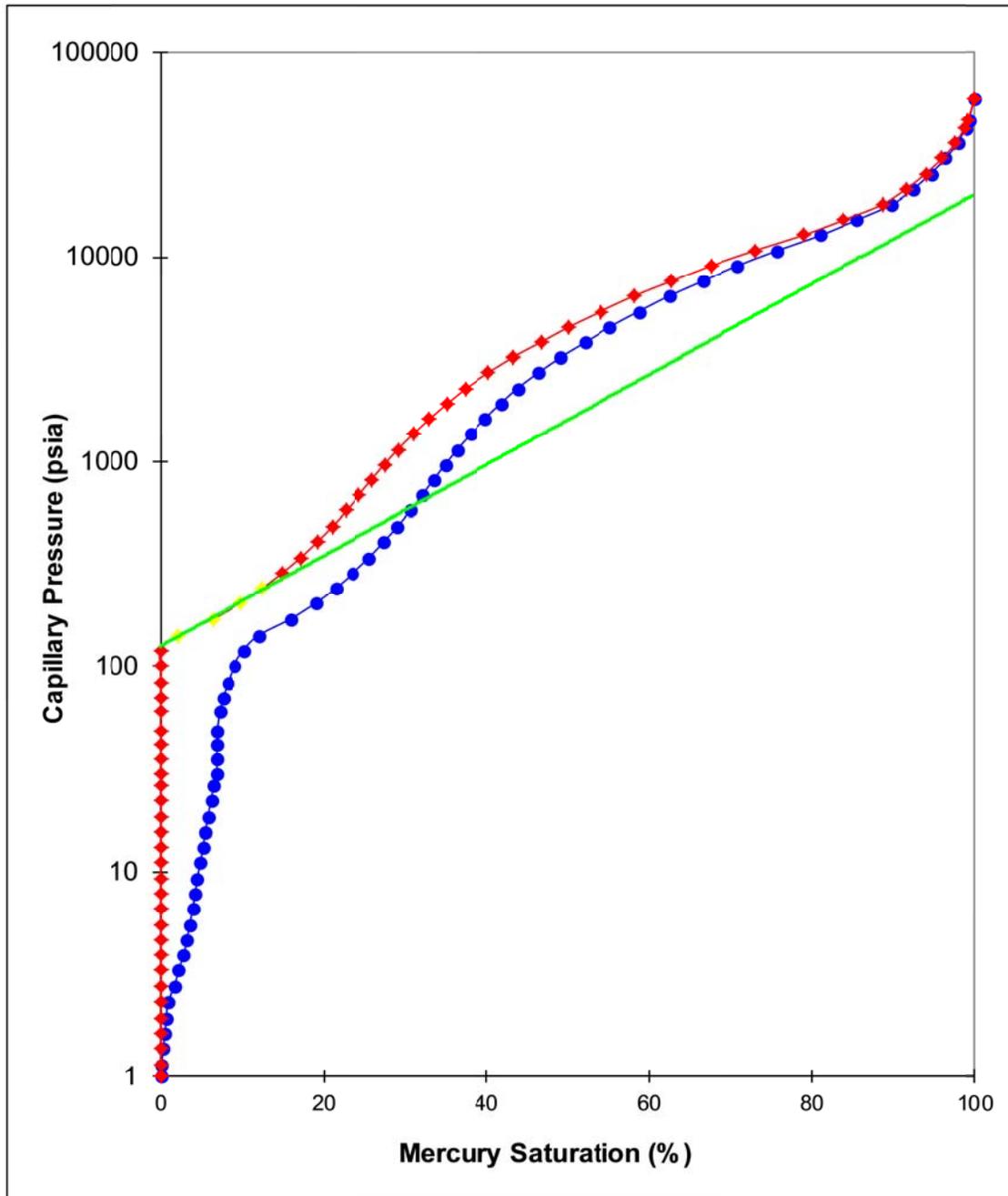
CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample R46 **Ambient Permeability** 0.29 mD
Depth 3884.46 m **Ambient Porosity** 9.0 %



PORE SIZE DISTRIBUTION

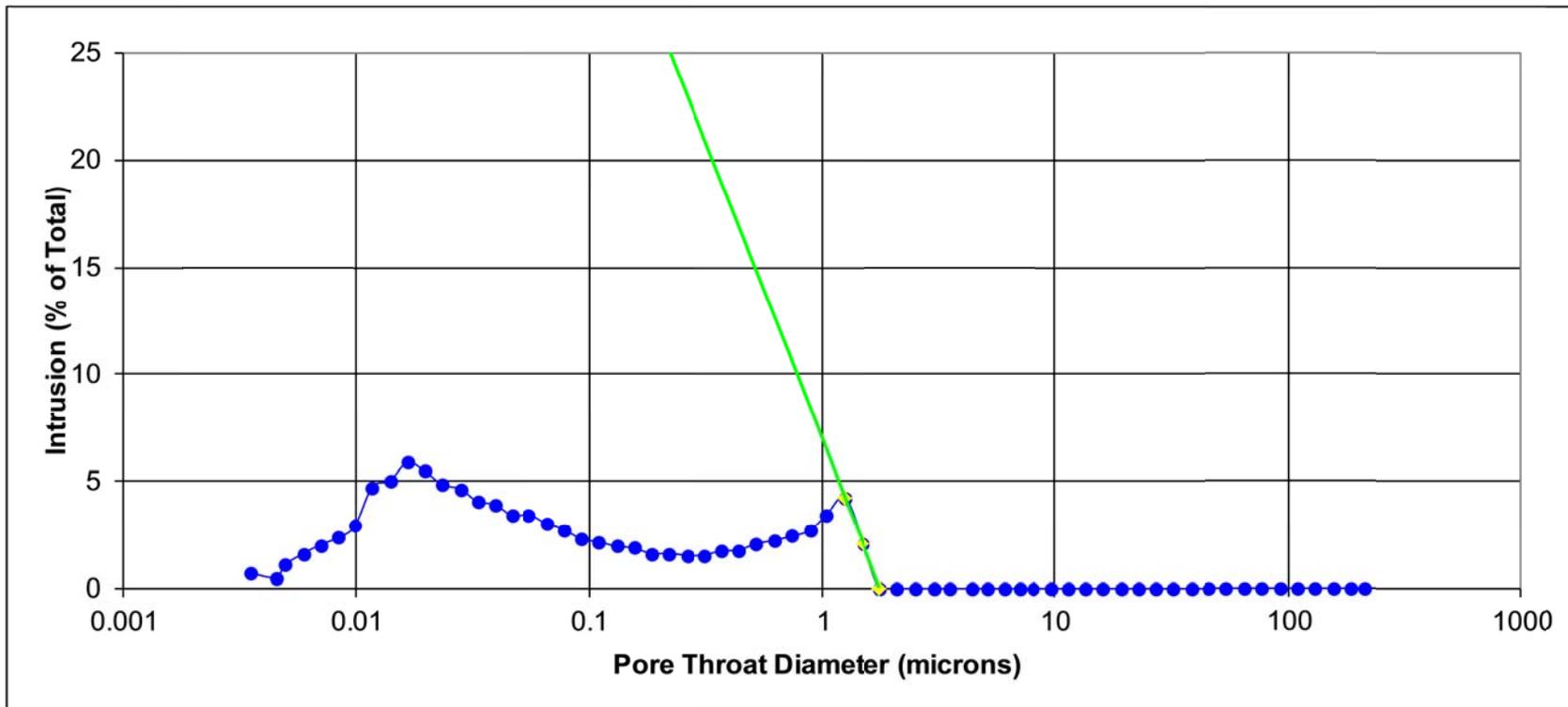


Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample R46
Depth 3884.46 m

Ambient Permeability 0.29 mD
Ambient Porosity 9.0 %



INTERPRETED CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2
Test Method Air/Mercury Capillary Pressure Drainage
Sample S18
Depth 3884.52 m
Ambient Permeability 0.23 mD
Ambient Porosity 9.2 %
Pore radius 0.90 μm

Pressure Gradients, psi/foot		Conversion Parameters				
		Typical	air/mercury	air/water	air/oil	oil/water
Water:	0.440	Laboratory Θ	140	0.0	0.0	30.0
Oil:	0.330	Laboratory IFT	480	72.0	24.0	48.0
Gas:	0.100	Reservoir Θ		0.0		30.0
		Reservoir IFT		50.0		30.0
		Laboratory Tcos Θ	367	72.0	24.0	42.0
		Reservoir Tcos Θ		50.0		26.0
		Entry Pressure (psi)	Displacement Pressure (psi)		Threshold Pressure (psi)	
System	Lab	Resv	Lab	Resv	Lab	Resv
A-Hg	118	-	130	-	219	-
G-W	23.2	16.1	25.6	17.8	43.1	30.0
O-W	13.5	8.37	14.9	9.24	25.1	15.6

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (μm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
1.00	0.0	0.0	0.0	0.0	212	0.20	0.14	0.11	0.07	0.20	0.12
1.15	0.0	0.0	0.0	0.0	184	0.23	0.16	0.13	0.08	0.23	0.14
1.37	0.2	0.2	0.0	0.0	155	0.27	0.19	0.16	0.10	0.27	0.17
1.63	0.2	0.4	0.0	0.0	130	0.32	0.22	0.19	0.12	0.32	0.20
1.94	0.1	0.5	0.0	0.0	109	0.38	0.27	0.22	0.14	0.38	0.24
2.32	0.2	0.6	0.0	0.0	91.5	0.46	0.32	0.27	0.17	0.46	0.28
2.76	0.1	0.7	0.0	0.0	76.9	0.54	0.38	0.32	0.20	0.54	0.34
3.29	0.1	0.8	0.0	0.0	64.5	0.65	0.45	0.38	0.23	0.65	0.40
3.91	0.1	0.9	0.0	0.0	54.2	0.77	0.53	0.45	0.28	0.77	0.48
4.65	0.1	1.0	0.0	0.0	45.6	0.91	0.63	0.53	0.33	0.91	0.57
5.53	0.1	1.1	0.0	0.0	38.3	1.08	0.75	0.63	0.39	1.09	0.67
6.58	0.2	1.4	0.0	0.0	32.2	1.29	0.90	0.75	0.47	1.29	0.80
7.82	0.1	1.5	0.0	0.0	27.1	1.53	1.06	0.90	0.55	1.54	0.95
9.30	0.2	1.6	0.0	0.0	22.8	1.82	1.26	1.06	0.66	1.82	1.13
11.1	0.1	1.8	0.0	0.0	19.2	2.18	1.51	1.27	0.79	2.18	1.35
13.1	0.2	2.0	0.0	0.0	16.1	2.57	1.78	1.50	0.93	2.57	1.60
15.6	0.1	2.1	0.0	0.0	13.6	3.06	2.13	1.79	1.11	3.08	1.91

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
18.6	0.3	2.4	0.0	0.0	11.4	3.65	2.53	2.13	1.32	3.66	2.27
22.1	0.2	2.7	0.0	0.0	9.61	4.34	3.01	2.53	1.57	4.35	2.70
26.2	0.3	3.0	0.0	0.0	8.09	5.14	3.57	3.00	1.86	5.15	3.20
30.0	0.5	3.5	0.0	0.0	7.07	5.89	4.09	3.43	2.12	5.87	3.67
35.2	0.0	3.6	0.0	0.0	6.02	6.91	4.80	4.03	2.49	6.90	4.30
42.5	0.0	3.6	0.0	0.0	4.99	8.34	5.79	4.86	3.01	8.34	5.19
49.2	0.1	3.7	0.0	0.0	4.31	9.65	6.70	5.63	3.49	9.67	6.01
58.9	0.2	3.9	0.0	0.0	3.60	11.6	8.06	6.74	4.17	11.6	7.23
71.3	0.4	4.3	0.0	0.0	2.97	14.0	9.72	8.16	5.05	14.0	8.71
84.2	0.5	4.7	0.0	0.0	2.52	16.5	11.5	9.64	5.97	16.5	10.3
98.9	0.7	5.4	0.0	0.0	2.14	19.4	13.5	11.3	7.00	19.4	12.1
121	1.3	6.7	0.0	0.0	1.75	23.7	16.5	13.8	8.54	23.7	14.8
143	1.8	8.4	1.9	1.9	1.48	28.1	19.5	16.4	10.2	28.3	17.5
170	2.9	11.3	3.1	5.0	1.25	33.4	23.2	19.5	12.1	33.5	20.8
203	3.5	14.9	3.8	8.8	1.04	39.8	27.6	23.2	14.4	39.9	24.7
243	2.8	17.7	3.0	11.8	0.873	47.7	33.1	27.8	17.2	47.7	29.7
287	2.4	20.1	2.5	14.3	0.739	56.3	39.1	32.8	20.3	56.2	35.1
340	2.2	22.2	2.4	16.7	0.623	66.7	46.3	38.9	24.1	66.8	41.5
408	2.0	24.2	2.1	18.8	0.520	80.0	55.6	46.7	28.9	80.1	49.8
483	1.9	26.1	2.0	20.8	0.439	94.8	65.8	55.3	34.2	94.8	59.0
576	1.6	27.8	1.8	22.6	0.368	113	78.5	65.9	40.8	113	70.4
684	1.6	29.4	1.7	24.3	0.310	134	93.1	78.3	48.5	134	83.5
813	1.6	31.0	1.7	26.0	0.261	159	110	93.0	57.6	160	98.6
966	1.6	32.5	1.7	27.7	0.219	190	132	111	68.7	190	118
1148	1.7	34.2	1.8	29.5	0.185	225	156	131	81.1	225	140
1364	1.9	36.1	2.0	31.5	0.155	268	186	156	96.6	268	167
1619	2.0	38.1	2.2	33.7	0.131	318	221	185	115	319	198
1922	2.1	40.2	2.3	36.0	0.110	377	262	220	136	377	235
2284	2.3	42.6	2.5	38.4	0.0928	448	311	261	162	449	279
2714	2.7	45.3	2.9	41.4	0.0781	532	369	311	193	535	331
3225	3.2	48.5	3.4	44.8	0.0657	633	440	369	228	632	394
3831	3.3	51.8	3.6	48.4	0.0553	752	522	438	271	751	468
4539	3.1	54.9	3.4	51.7	0.0467	890	618	519	321	889	554
5401	3.9	58.9	4.2	55.9	0.0393	1060	736	618	383	1061	660
6415	4.0	62.8	4.2	60.2	0.0330	1259	874	734	454	1258	784

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
7620	4.1	66.9	4.3	64.5	0.0278	1495	1038	872	540	1496	931
9051	4.6	71.5	4.9	69.4	0.0234	1776	1233	1036	641	1776	1105
10749	4.8	76.3	5.2	74.6	0.0197	2109	1465	1230	761	2109	1313
12759	4.3	80.6	4.6	79.2	0.0166	2503	1738	1460	904	2505	1558
15161	4.4	85.0	4.7	83.9	0.0140	2974	2065	1735	1074	2976	1851
18006	3.8	88.8	4.1	88.0	0.0118	3533	2453	2061	1276	3536	2199
21384	2.9	91.7	3.1	91.1	0.0099	4195	2913	2447	1515	4198	2611
25396	2.1	93.8	2.3	93.4	0.0083	4982	3460	2906	1799	4985	3102
30162	2.1	95.9	2.2	95.6	0.0070	5917	4109	3452	2137	5921	3684
35815	1.3	97.2	1.4	97.0	0.0059	7026	4879	4099	2537	7030	4374
42535	1.8	99.0	1.9	98.9	0.0050	8345	5795	4868	3014	8352	5195
46869	0.5	99.5	0.6	99.4	0.0045	9195	6385	5364	3321	9202	5724
59942	0.5	100.0	0.6	100.0	0.0035	11760	8167	6860	4247	11768	7321

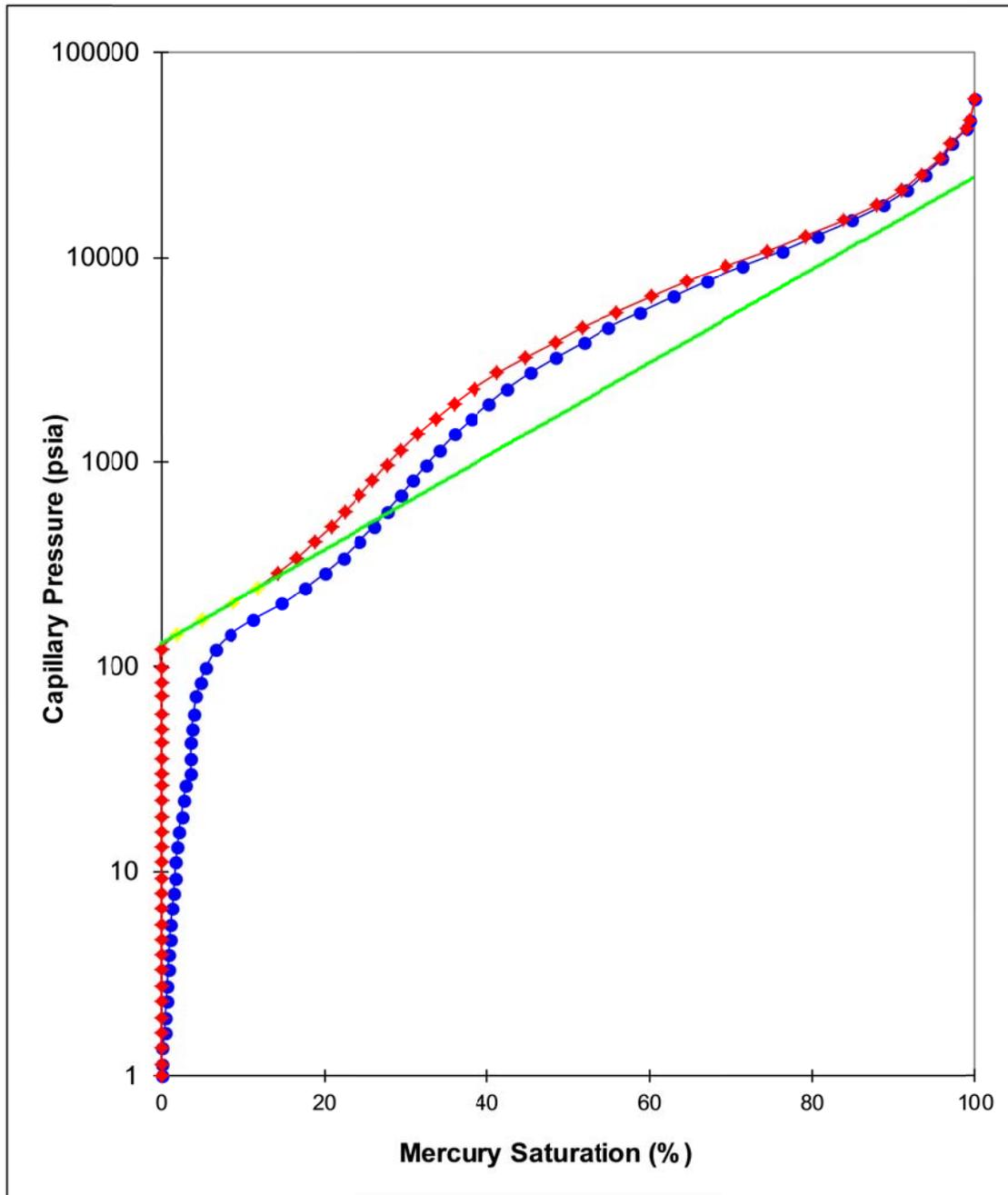
CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample S18 **Ambient Permeability** 0.23 mD
Depth 3884.52 m **Ambient Porosity** 9.2 %



PORE SIZE DISTRIBUTION

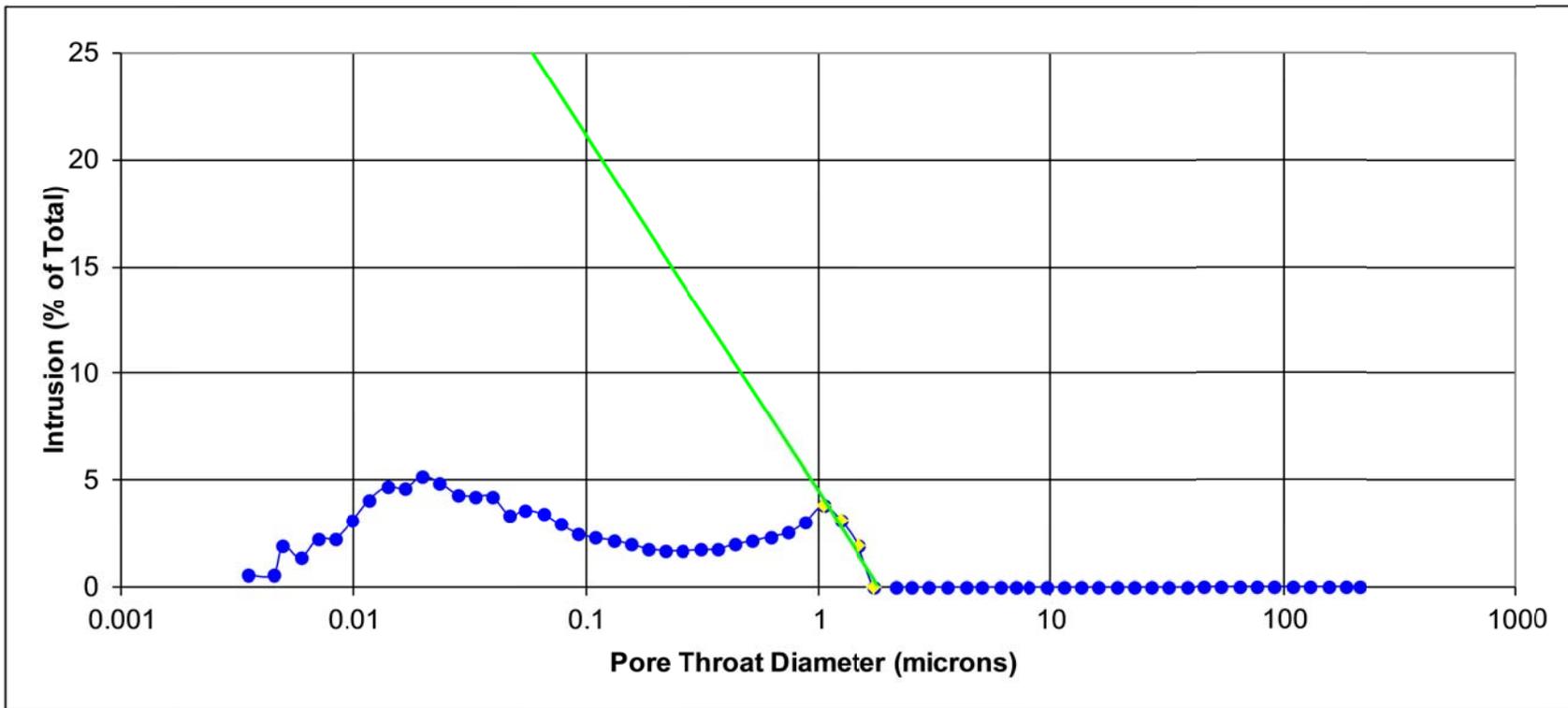


Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample S18
Depth 3884.52 m

Ambient Permeability 0.23 mD
Ambient Porosity 9.2 %



INTERPRETED CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2
Test Method Air/Mercury Capillary Pressure Drainage
Sample R48
Depth 3885.45 m
Ambient Permeability 0.16 mD
Ambient Porosity 8.4 %
Pore radius 1.13 μm

Pressure Gradients, psi/foot		Conversion Parameters				
	Typical		air/mercury	air/water	air/oil	oil/water
Water:	0.440	Laboratory Θ	140	0.0	0.0	30.0
Oil:	0.330	Laboratory IFT	480	72.0	24.0	48.0
Gas:	0.100	Reservoir Θ		0.0		30.0
		Reservoir IFT		50.0		30.0
		Laboratory Tcos Θ	367	72.0	24.0	42.0
		Reservoir Tcos Θ		50.0		26.0
		Entry Pressure (psi)	Displacement Pressure (psi)		Threshold Pressure (psi)	
System	Lab	Resv	Lab	Resv	Lab	Resv
A-Hg	94.2	-	117	-	228	-
G-W	18.5	12.8	23.0	15.9	44.8	31.0
O-W	10.8	6.67	13.4	8.28	26.1	16.1

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (μm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
1.00	0.0	0.0	0.0	0.0	212	0.20	0.14	0.11	0.07	0.20	0.12
1.15	0.2	0.2	0.0	0.0	184	0.23	0.16	0.13	0.08	0.23	0.14
1.37	0.2	0.4	0.0	0.0	154	0.27	0.19	0.16	0.10	0.27	0.17
1.63	0.2	0.6	0.0	0.0	130	0.32	0.22	0.19	0.12	0.32	0.20
1.94	0.2	0.8	0.0	0.0	109	0.38	0.27	0.22	0.14	0.38	0.24
2.31	0.2	1.0	0.0	0.0	91.6	0.45	0.32	0.26	0.16	0.45	0.28
2.76	0.2	1.2	0.0	0.0	76.9	0.54	0.38	0.32	0.20	0.54	0.34
3.28	0.2	1.3	0.0	0.0	64.6	0.64	0.45	0.38	0.23	0.64	0.40
3.91	0.2	1.5	0.0	0.0	54.2	0.77	0.53	0.45	0.28	0.77	0.48
4.65	0.2	1.7	0.0	0.0	45.6	0.91	0.63	0.53	0.33	0.91	0.57
5.53	0.2	1.9	0.0	0.0	38.3	1.08	0.75	0.63	0.39	1.09	0.67
6.58	0.6	2.5	0.0	0.0	32.2	1.29	0.90	0.75	0.47	1.29	0.80
7.82	0.3	2.8	0.0	0.0	27.1	1.53	1.06	0.90	0.55	1.54	0.95
9.30	0.2	3.0	0.0	0.0	22.8	1.82	1.26	1.06	0.66	1.82	1.13
11.1	0.3	3.2	0.0	0.0	19.2	2.18	1.51	1.27	0.79	2.18	1.35
13.1	0.3	3.5	0.0	0.0	16.1	2.57	1.78	1.50	0.93	2.57	1.60
15.6	0.3	3.8	0.0	0.0	13.6	3.06	2.13	1.79	1.11	3.08	1.91

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
18.6	0.3	4.1	0.0	0.0	11.4	3.65	2.53	2.13	1.32	3.66	2.27
22.1	0.3	4.4	0.0	0.0	9.61	4.34	3.01	2.53	1.57	4.35	2.70
26.2	0.3	4.7	0.0	0.0	8.09	5.14	3.57	3.00	1.86	5.15	3.20
30.0	0.3	5.0	0.0	0.0	7.07	5.89	4.09	3.43	2.12	5.87	3.67
33.2	0.0	5.0	0.0	0.0	6.39	6.51	4.52	3.80	2.35	6.51	4.05
40.7	0.0	5.0	0.0	0.0	5.21	7.98	5.54	4.66	2.88	7.98	4.97
49.2	0.1	5.2	0.0	0.0	4.31	9.65	6.70	5.63	3.49	9.67	6.01
58.4	0.4	5.5	0.0	0.0	3.63	11.5	7.99	6.68	4.14	11.5	7.16
70.3	0.4	6.0	0.0	0.0	3.01	13.8	9.58	8.05	4.98	13.8	8.59
84.4	0.6	6.5	0.0	0.0	2.51	16.6	11.5	9.66	5.98	16.6	10.3
99.5	0.9	7.4	0.0	0.0	2.13	19.5	13.5	11.4	7.06	19.6	12.1
121	1.1	8.5	1.2	1.2	1.76	23.7	16.5	13.8	8.54	23.7	14.8
144	1.5	10.0	1.6	2.8	1.47	28.3	19.7	16.5	10.2	28.3	17.7
169	2.1	12.1	2.2	5.0	1.26	33.2	23.1	19.3	11.9	33.0	20.7
202	2.6	14.7	2.8	7.8	1.05	39.6	27.5	23.1	14.3	39.6	24.7
241	3.0	17.7	3.2	11.1	0.878	47.3	32.8	27.6	17.1	47.4	29.4
286	2.3	20.0	2.5	13.6	0.742	56.1	39.0	32.7	20.2	56.0	35.0
343	2.3	22.3	2.4	16.0	0.619	67.3	46.7	39.3	24.3	67.3	41.9
406	1.9	24.1	2.0	18.0	0.522	79.7	55.3	46.5	28.8	79.8	49.6
485	1.8	25.9	1.9	19.9	0.437	95.1	66.0	55.5	34.4	95.3	59.2
577	1.6	27.5	1.7	21.7	0.367	113	78.5	66.0	40.9	113	70.4
683	1.5	29.0	1.6	23.3	0.311	134	93.1	78.2	48.4	134	83.5
812	1.4	30.4	1.5	24.8	0.261	159	110	92.9	57.5	159	98.6
967	1.4	31.8	1.6	26.4	0.219	190	132	111	68.7	190	118
1147	1.5	33.3	1.6	28.0	0.185	225	156	131	81.1	225	140
1365	1.9	35.2	2.0	30.0	0.155	268	186	156	96.6	268	167
1619	1.8	37.0	2.0	32.0	0.131	318	221	185	115	319	198
1924	2.2	39.2	2.4	34.4	0.110	377	262	220	136	377	235
2286	2.3	41.6	2.5	36.9	0.0927	448	311	262	162	449	279
2716	2.9	44.5	3.2	40.0	0.0780	533	370	311	193	535	332
3225	3.2	47.7	3.4	43.5	0.0657	633	440	369	228	632	394
3831	3.2	50.9	3.5	46.9	0.0553	752	522	438	271	751	468
4548	3.5	54.3	3.7	50.7	0.0466	892	619	520	322	892	555
5403	3.7	58.0	4.0	54.6	0.0392	1060	736	618	383	1061	660
6415	4.1	62.1	4.5	59.1	0.0330	1259	874	734	454	1258	784

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
7620	4.0	66.2	4.4	63.5	0.0278	1495	1038	872	540	1496	931
9050	4.0	70.2	4.3	67.8	0.0234	1775	1233	1036	641	1776	1105
10749	5.3	75.5	5.8	73.5	0.0197	2109	1465	1230	761	2109	1313
12766	4.9	80.4	5.2	78.8	0.0166	2505	1740	1461	904	2505	1560
15160	4.6	84.9	4.9	83.7	0.0140	2974	2065	1735	1074	2976	1851
18006	3.9	88.8	4.2	87.9	0.0118	3533	2453	2061	1276	3536	2199
21384	3.1	91.9	3.3	91.3	0.0099	4195	2913	2447	1515	4198	2611
25397	2.5	94.4	2.7	93.9	0.0083	4983	3460	2906	1799	4985	3102
30162	2.1	96.5	2.3	96.3	0.0070	5917	4109	3452	2137	5921	3684
35812	1.3	97.8	1.4	97.7	0.0059	7026	4879	4098	2537	7030	4374
42520	1.0	98.9	1.1	98.8	0.0050	8342	5793	4866	3012	8346	5193
46871	0.5	99.3	0.5	99.3	0.0045	9195	6385	5364	3321	9202	5724
59939	0.7	100.0	0.7	100.0	0.0035	11759	8166	6860	4247	11768	7321

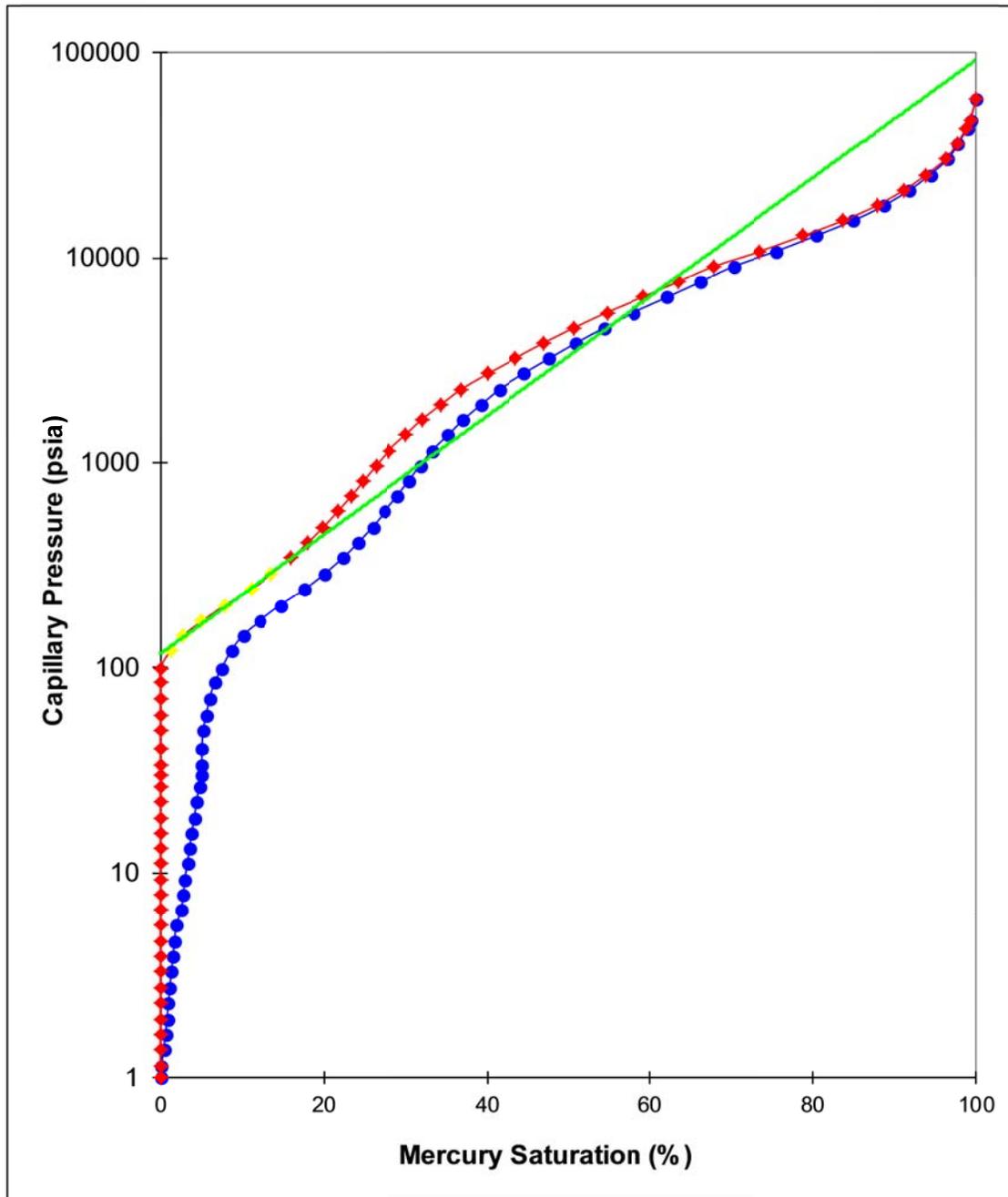
CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample R48 **Ambient Permeability** 0.16 mD
Depth 3885.45 m **Ambient Porosity** 8.4 %



PORE SIZE DISTRIBUTION

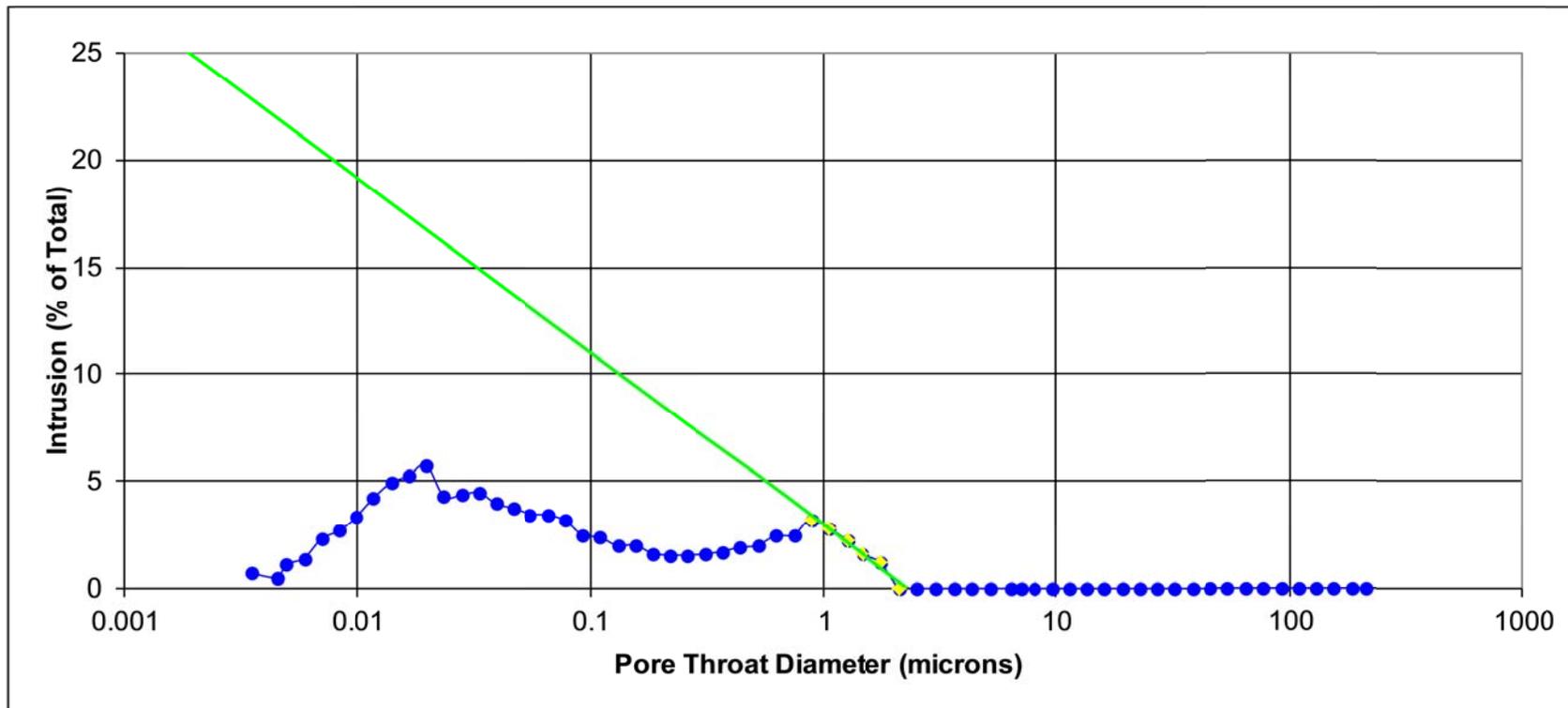


Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample R48
Depth 3885.45 m

Ambient Permeability 0.16 mD
Ambient Porosity 8.4 %



INTERPRETED CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2
Test Method Air/Mercury Capillary Pressure Drainage
Sample S19
Depth 3885.50 m
Ambient Permeability 0.16 mD
Ambient Porosity 8.1 %
Pore radius 0.74 μm

Pressure Gradients, psi/foot		Conversion Parameters				
		Typical	air/mercury	air/water	air/oil	oil/water
Water:	0.440	Laboratory Θ	140	0.0	0.0	30.0
Oil:	0.330	Laboratory IFT	480	72.0	24.0	48.0
Gas:	0.100	Reservoir Θ		0.0		30.0
		Reservoir IFT		50.0		30.0
		Laboratory Tcos Θ	367	72.0	24.0	42.0
		Reservoir Tcos Θ		50.0		26.0
		Entry Pressure (psi)	Displacement Pressure (psi)		Threshold Pressure (psi)	
System	Lab	Resv	Lab	Resv	Lab	Resv
A-Hg	144	-	153	-	251	-
G-W	28.2	19.6	30.0	20.9	49.2	34.3
O-W	16.5	10.2	17.5	10.8	28.7	17.7

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (μm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
1.00	0.0	0.0	0.0	0.0	212	0.20	0.14	0.11	0.07	0.20	0.12
1.15	0.1	0.1	0.0	0.0	184	0.23	0.16	0.13	0.08	0.23	0.14
1.37	0.2	0.3	0.0	0.0	155	0.27	0.19	0.16	0.10	0.27	0.17
1.63	0.2	0.5	0.0	0.0	130	0.32	0.22	0.19	0.12	0.32	0.20
1.94	0.2	0.6	0.0	0.0	109	0.38	0.27	0.22	0.14	0.38	0.24
2.31	0.2	0.8	0.0	0.0	91.6	0.45	0.32	0.26	0.16	0.45	0.28
2.76	0.2	1.0	0.0	0.0	76.9	0.54	0.38	0.32	0.20	0.54	0.34
3.28	0.2	1.2	0.0	0.0	64.6	0.64	0.45	0.38	0.23	0.64	0.40
3.91	0.2	1.5	0.0	0.0	54.3	0.77	0.53	0.45	0.28	0.77	0.48
4.65	0.1	1.6	0.0	0.0	45.6	0.91	0.63	0.53	0.33	0.91	0.57
5.53	0.2	1.7	0.0	0.0	38.3	1.08	0.75	0.63	0.39	1.09	0.67
6.58	0.1	1.8	0.0	0.0	32.2	1.29	0.90	0.75	0.47	1.29	0.80
7.82	0.1	1.9	0.0	0.0	27.1	1.53	1.06	0.90	0.55	1.54	0.95
9.30	0.1	2.1	0.0	0.0	22.8	1.82	1.26	1.06	0.66	1.82	1.13
11.1	0.1	2.2	0.0	0.0	19.2	2.18	1.51	1.27	0.79	2.18	1.35
13.1	0.1	2.3	0.0	0.0	16.1	2.57	1.78	1.50	0.93	2.57	1.60
15.6	0.2	2.5	0.0	0.0	13.6	3.06	2.13	1.79	1.11	3.08	1.91

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
18.6	0.2	2.6	0.0	0.0	11.4	3.65	2.53	2.13	1.32	3.66	2.27
22.1	0.2	2.8	0.0	0.0	9.61	4.34	3.01	2.53	1.57	4.35	2.70
26.2	0.2	3.0	0.0	0.0	8.09	5.14	3.57	3.00	1.86	5.15	3.20
30.0	0.2	3.3	0.0	0.0	7.07	5.89	4.09	3.43	2.12	5.87	3.67
34.4	0.1	3.3	0.0	0.0	6.17	6.75	4.69	3.94	2.44	6.76	4.20
41.4	0.0	3.4	0.0	0.0	5.12	8.12	5.64	4.74	2.93	8.12	5.06
48.6	0.1	3.4	0.0	0.0	4.36	9.53	6.62	5.56	3.44	9.53	5.93
59.6	0.2	3.6	0.0	0.0	3.56	11.7	8.13	6.82	4.22	11.7	7.29
72.4	0.3	3.9	0.0	0.0	2.93	14.2	9.86	8.29	5.13	14.2	8.84
84.1	0.4	4.3	0.0	0.0	2.52	16.5	11.5	9.62	5.96	16.5	10.3
101	0.5	4.8	0.0	0.0	2.10	19.8	13.8	11.6	7.18	19.9	12.4
120	0.7	5.5	0.0	0.0	1.77	23.5	16.3	13.7	8.48	23.5	14.6
144	1.3	6.8	0.0	0.0	1.47	28.3	19.7	16.5	10.2	28.3	17.7
171	2.0	8.8	2.2	2.2	1.24	33.5	23.3	19.6	12.1	33.5	20.9
205	3.7	12.5	3.9	6.1	1.04	40.2	27.9	23.5	14.5	40.2	25.0
242	2.8	15.3	3.0	9.1	0.877	47.5	33.0	27.7	17.1	47.4	29.6
288	2.7	18.0	2.9	12.0	0.736	56.5	39.2	33.0	20.4	56.5	35.1
343	2.4	20.4	2.6	14.6	0.619	67.3	46.7	39.3	24.3	67.3	41.9
408	2.3	22.7	2.4	17.0	0.520	80.0	55.6	46.7	28.9	80.1	49.8
485	2.0	24.6	2.1	19.2	0.437	95.1	66.0	55.5	34.4	95.3	59.2
575	2.0	26.6	2.1	21.3	0.369	113	78.5	65.8	40.7	113	70.4
686	1.7	28.3	1.8	23.1	0.309	135	93.8	78.5	48.6	135	84.1
813	1.7	30.0	1.8	24.9	0.261	159	110	93.0	57.6	160	98.6
966	1.6	31.6	1.7	26.6	0.219	190	132	111	68.7	190	118
1149	1.7	33.3	1.8	28.5	0.185	225	156	131	81.1	225	140
1364	1.8	35.1	1.9	30.4	0.155	268	186	156	96.6	268	167
1621	1.9	37.0	2.0	32.4	0.131	318	221	186	115	319	198
1925	2.0	39.0	2.2	34.5	0.110	378	263	220	136	377	236
2287	2.1	41.1	2.2	36.8	0.0927	449	312	262	162	449	280
2717	2.6	43.7	2.8	39.6	0.0780	533	370	311	193	535	332
3228	2.8	46.4	3.0	42.5	0.0657	633	440	369	228	632	394
3831	3.2	49.6	3.4	45.9	0.0553	752	522	438	271	751	468
4547	3.2	52.8	3.4	49.4	0.0466	892	619	520	322	892	555
5403	3.7	56.5	3.9	53.3	0.0392	1060	736	618	383	1061	660
6418	3.6	60.1	3.9	57.2	0.0330	1259	874	734	454	1258	784

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
7621	3.9	64.0	4.1	61.4	0.0278	1495	1038	872	540	1496	931
9052	4.3	68.2	4.6	65.9	0.0234	1776	1233	1036	641	1776	1105
10750	5.2	73.4	5.6	71.5	0.0197	2109	1465	1230	761	2109	1313
12768	5.6	79.0	6.0	77.5	0.0166	2505	1740	1461	904	2505	1560
15163	4.8	83.8	5.1	82.7	0.0140	2975	2066	1735	1074	2976	1852
18006	3.9	87.8	4.2	86.9	0.0118	3533	2453	2061	1276	3536	2199
21386	4.3	92.0	4.6	91.5	0.0099	4196	2914	2447	1515	4198	2612
25395	2.0	94.0	2.2	93.6	0.0083	4982	3460	2906	1799	4985	3102
30160	2.1	96.1	2.2	95.8	0.0070	5917	4109	3452	2137	5921	3684
35817	1.5	97.6	1.6	97.4	0.0059	7027	4880	4099	2537	7030	4375
42524	1.1	98.7	1.2	98.6	0.0050	8343	5794	4867	3013	8349	5194
46873	0.5	99.2	0.5	99.2	0.0045	9196	6386	5364	3321	9202	5725
59949	0.8	100.0	0.8	100.0	0.0035	11761	8167	6861	4247	11768	7321

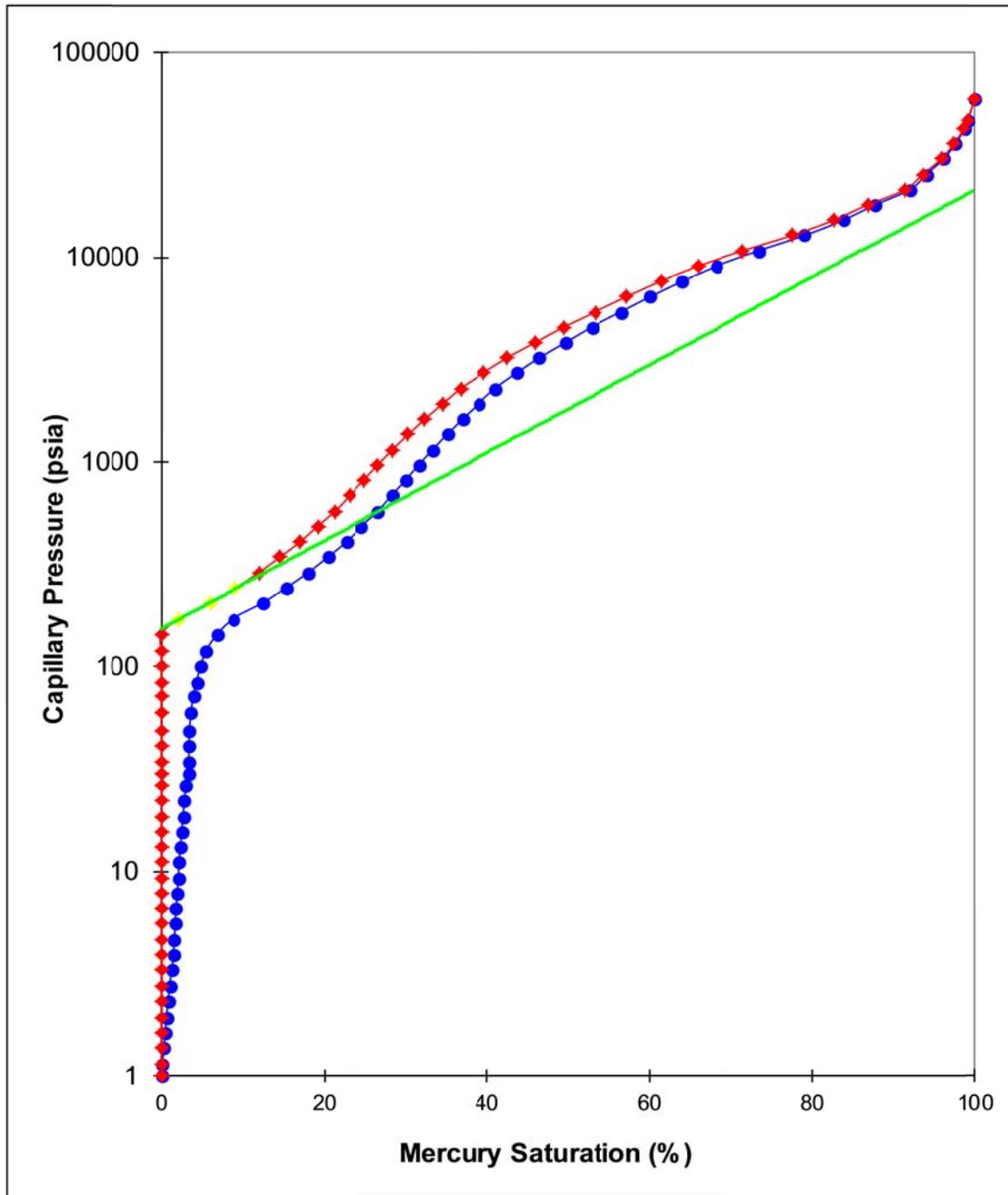
CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample S19 **Ambient Permeability** 0.16 mD
Depth 3885.50 m **Ambient Porosity** 8.1 %



PORE SIZE DISTRIBUTION

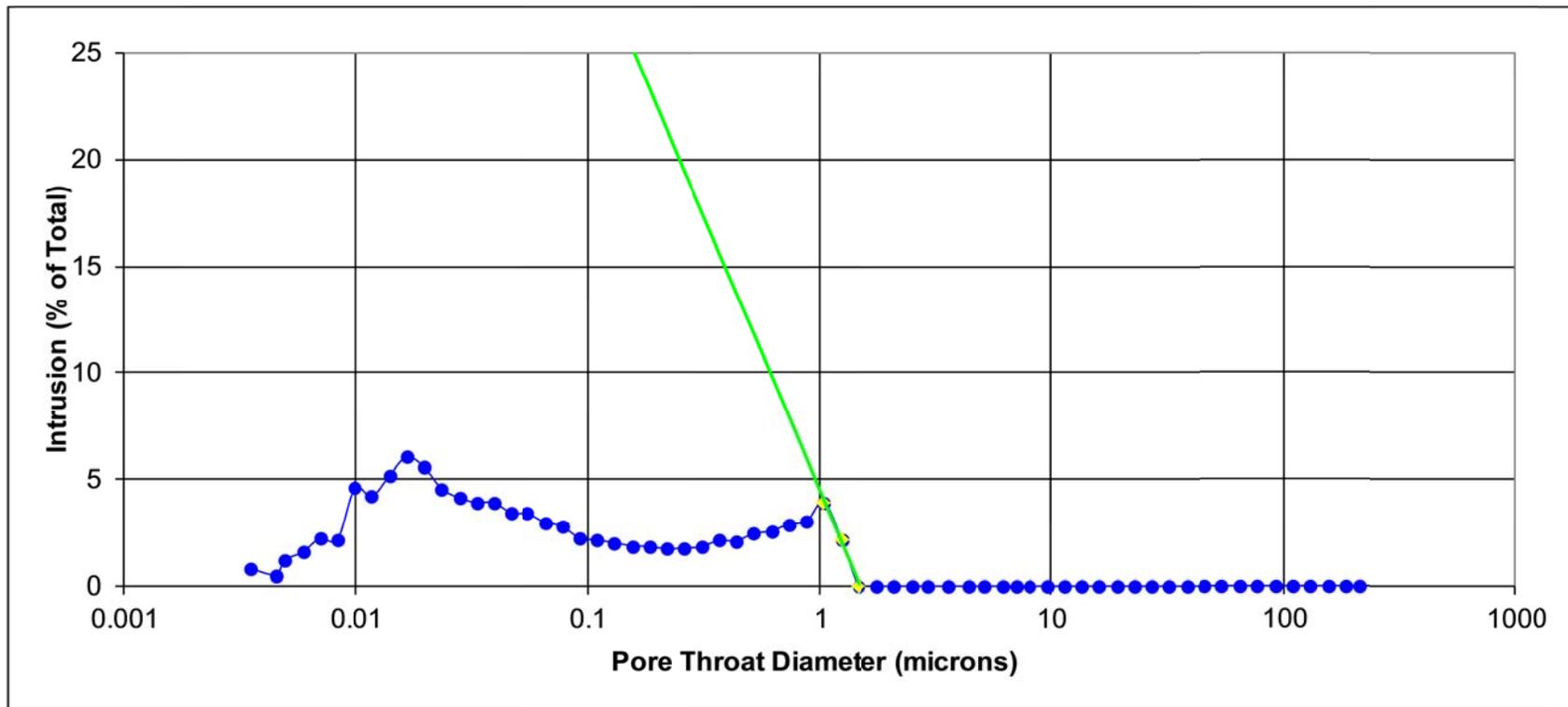


Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample S19
Depth 3885.50 m

Ambient Permeability 0.16 mD
Ambient Porosity 8.1 %



INTERPRETED CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2
Test Method Air/Mercury Capillary Pressure Drainage
Sample R61
Depth 3896.50 m
Ambient Permeability 0.042 mD
Ambient Porosity 2.7 %
Pore radius 0.06 µm

Pressure Gradients, psi/foot		Conversion Parameters				
		Typical	air/mercury	air/water	air/oil	oil/water
Water:	0.440	Laboratory Θ	140	0.0	0.0	30.0
Oil:	0.330	Laboratory IFT	480	72.0	24.0	48.0
Gas:	0.100	Reservoir Θ		0.0		30.0
		Reservoir IFT		50.0		30.0
		Laboratory Tcos Θ	367	72.0	24.0	42.0
		Reservoir Tcos Θ		50.0		26.0
		Entry Pressure (psi)	Displacement Pressure (psi)		Threshold Pressure (psi)	
System	Lab	Resv	Lab	Resv	Lab	Resv
A-Hg	1901	-	2074	-	4388	-
G-W	373	259	407	283	861	599
O-W	218	135	238	147	504	311

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
1.00	0.0	0.0	0.0	0.0	212	0.20	0.14	0.11	0.07	0.20	0.12
1.15	0.9	0.9	0.0	0.0	184	0.23	0.16	0.13	0.08	0.23	0.14
1.37	0.8	1.7	0.0	0.0	155	0.27	0.19	0.16	0.10	0.27	0.17
1.63	1.2	2.9	0.0	0.0	130	0.32	0.22	0.19	0.12	0.32	0.20
1.94	0.4	3.3	0.0	0.0	109	0.38	0.27	0.22	0.14	0.38	0.24
2.32	0.9	4.2	0.0	0.0	91.5	0.46	0.32	0.27	0.17	0.46	0.28
2.76	0.6	4.7	0.0	0.0	76.9	0.54	0.38	0.32	0.20	0.54	0.34
3.29	0.4	5.1	0.0	0.0	64.5	0.65	0.45	0.38	0.23	0.65	0.40
3.91	0.4	5.5	0.0	0.0	54.2	0.77	0.53	0.45	0.28	0.77	0.48
4.65	0.2	5.7	0.0	0.0	45.6	0.91	0.63	0.53	0.33	0.91	0.57
5.53	0.3	6.0	0.0	0.0	38.3	1.08	0.75	0.63	0.39	1.09	0.67
6.58	0.3	6.4	0.0	0.0	32.2	1.29	0.90	0.75	0.47	1.29	0.80
7.82	0.3	6.7	0.0	0.0	27.1	1.53	1.06	0.90	0.55	1.54	0.95
9.30	0.2	6.9	0.0	0.0	22.8	1.82	1.26	1.06	0.66	1.82	1.13
11.1	0.2	7.1	0.0	0.0	19.2	2.18	1.51	1.27	0.79	2.18	1.35
13.1	0.2	7.4	0.0	0.0	16.1	2.57	1.78	1.50	0.93	2.57	1.60
15.6	0.2	7.6	0.0	0.0	13.6	3.06	2.13	1.79	1.11	3.08	1.91

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
18.6	0.4	8.0	0.0	0.0	11.4	3.65	2.53	2.13	1.32	3.66	2.27
22.1	0.3	8.3	0.0	0.0	9.61	4.34	3.01	2.53	1.57	4.35	2.70
26.2	0.4	8.7	0.0	0.0	8.09	5.14	3.57	3.00	1.86	5.15	3.20
30.0	0.5	9.2	0.0	0.0	7.07	5.89	4.09	3.43	2.12	5.87	3.67
35.2	0.1	9.4	0.0	0.0	6.03	6.91	4.80	4.03	2.49	6.90	4.30
42.5	0.0	9.4	0.0	0.0	4.99	8.34	5.79	4.86	3.01	8.34	5.19
49.1	0.1	9.5	0.0	0.0	4.31	9.63	6.69	5.62	3.48	9.64	6.00
58.9	0.4	9.9	0.0	0.0	3.60	11.6	8.06	6.74	4.17	11.6	7.23
71.3	0.3	10.1	0.0	0.0	2.97	14.0	9.72	8.16	5.05	14.0	8.71
84.2	0.2	10.4	0.0	0.0	2.52	16.5	11.5	9.64	5.97	16.5	10.3
98.9	0.3	10.6	0.0	0.0	2.14	19.4	13.5	11.3	7.00	19.4	12.1
121	0.3	10.9	0.0	0.0	1.75	23.7	16.5	13.8	8.54	23.7	14.8
143	0.3	11.2	0.0	0.0	1.48	28.1	19.5	16.4	10.2	28.3	17.5
170	0.3	11.5	0.0	0.0	1.25	33.4	23.2	19.5	12.1	33.5	20.8
203	0.4	11.9	0.0	0.0	1.04	39.8	27.6	23.2	14.4	39.9	24.7
243	0.4	12.2	0.0	0.0	0.872	47.7	33.1	27.8	17.2	47.7	29.7
287	0.4	12.6	0.0	0.0	0.738	56.3	39.1	32.8	20.3	56.2	35.1
341	0.5	13.2	0.0	0.0	0.622	66.9	46.5	39.0	24.1	66.8	41.7
408	0.5	13.7	0.0	0.0	0.519	80.0	55.6	46.7	28.9	80.1	49.8
484	0.5	14.2	0.0	0.0	0.438	95.0	66.0	55.4	34.3	95.0	59.2
576	0.5	14.7	0.0	0.0	0.368	113	78.5	65.9	40.8	113	70.4
684	0.6	15.3	0.0	0.0	0.310	134	93.1	78.3	48.5	134	83.5
814	0.6	15.9	0.0	0.0	0.261	160	111	93.2	57.7	160	99.5
967	0.7	16.5	0.0	0.0	0.219	190	132	111	68.7	190	118
1148	0.7	17.2	0.0	0.0	0.185	225	156	131	81.1	225	140
1365	0.9	18.1	0.0	0.0	0.155	268	186	156	96.6	268	167
1620	0.9	19.0	0.0	0.0	0.131	318	221	185	115	319	198
1923	1.1	20.1	0.0	0.0	0.110	377	262	220	136	377	235
2285	1.2	21.3	1.6	1.6	0.0928	448	311	261	162	449	279
2715	1.4	22.7	1.7	3.3	0.0781	533	370	311	193	535	332
3226	2.0	24.7	2.5	5.7	0.0657	633	440	369	228	632	394
3832	2.1	26.8	2.7	8.4	0.0553	752	522	439	272	754	468
4540	1.6	28.4	2.0	10.4	0.0467	891	619	520	322	892	555
5402	3.4	31.8	4.2	14.6	0.0392	1060	736	618	383	1061	660
6417	3.8	35.6	4.8	19.4	0.0330	1259	874	734	454	1258	784

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
7622	4.0	39.7	5.1	24.5	0.0278	1495	1038	872	540	1496	931
9052	4.7	44.4	5.9	30.4	0.0234	1776	1233	1036	641	1776	1105
10750	4.9	49.3	6.2	36.5	0.0197	2109	1465	1230	761	2109	1313
12761	4.3	53.6	5.4	42.0	0.0166	2504	1739	1460	904	2505	1559
15163	6.8	60.4	8.5	50.5	0.0140	2975	2066	1735	1074	2976	1852
18008	7.9	68.3	9.9	60.4	0.0118	3533	2453	2061	1276	3536	2199
21386	6.7	75.1	8.4	68.8	0.0099	4196	2914	2447	1515	4198	2612
25398	5.6	80.7	7.1	75.9	0.0083	4983	3460	2907	1800	4988	3102
30164	7.1	87.8	8.9	84.7	0.0070	5918	4110	3452	2137	5921	3684
35817	3.9	91.7	4.8	89.6	0.0059	7027	4880	4099	2537	7030	4375
42537	8.3	100.0	10.4	100.0	0.0050	8345	5795	4868	3014	8352	5195
46871	0.0	100.0	0.0	100.0	0.0045	9195	6385	5364	3321	9202	5724
59944	0.0	100.0	0.0	100.0	0.0035	11760	8167	6860	4247	11768	7321

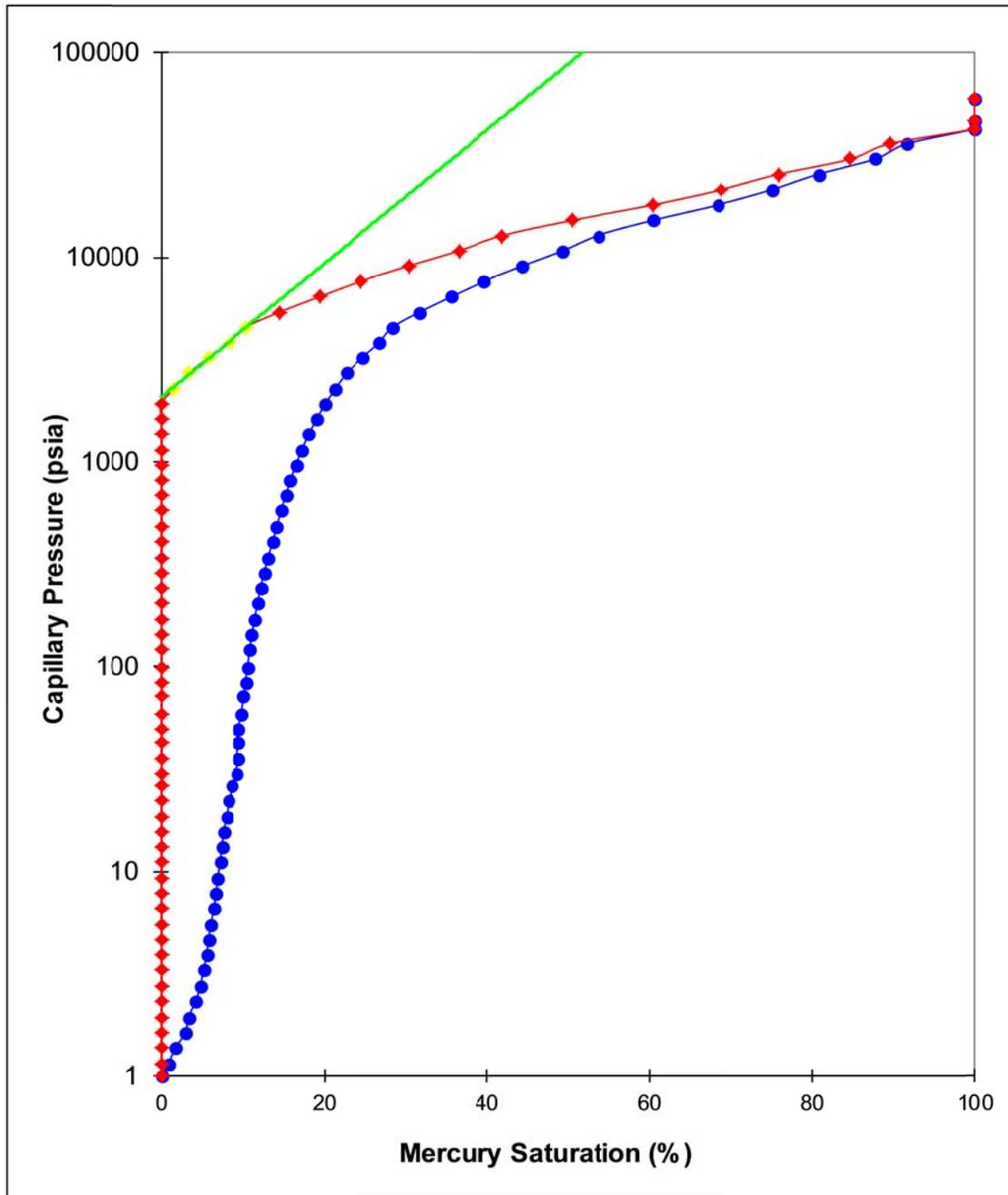
CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample R61 **Ambient Permeability** 0.042 mD
Depth 3896.50 m **Ambient Porosity** 2.7 %



PORE SIZE DISTRIBUTION

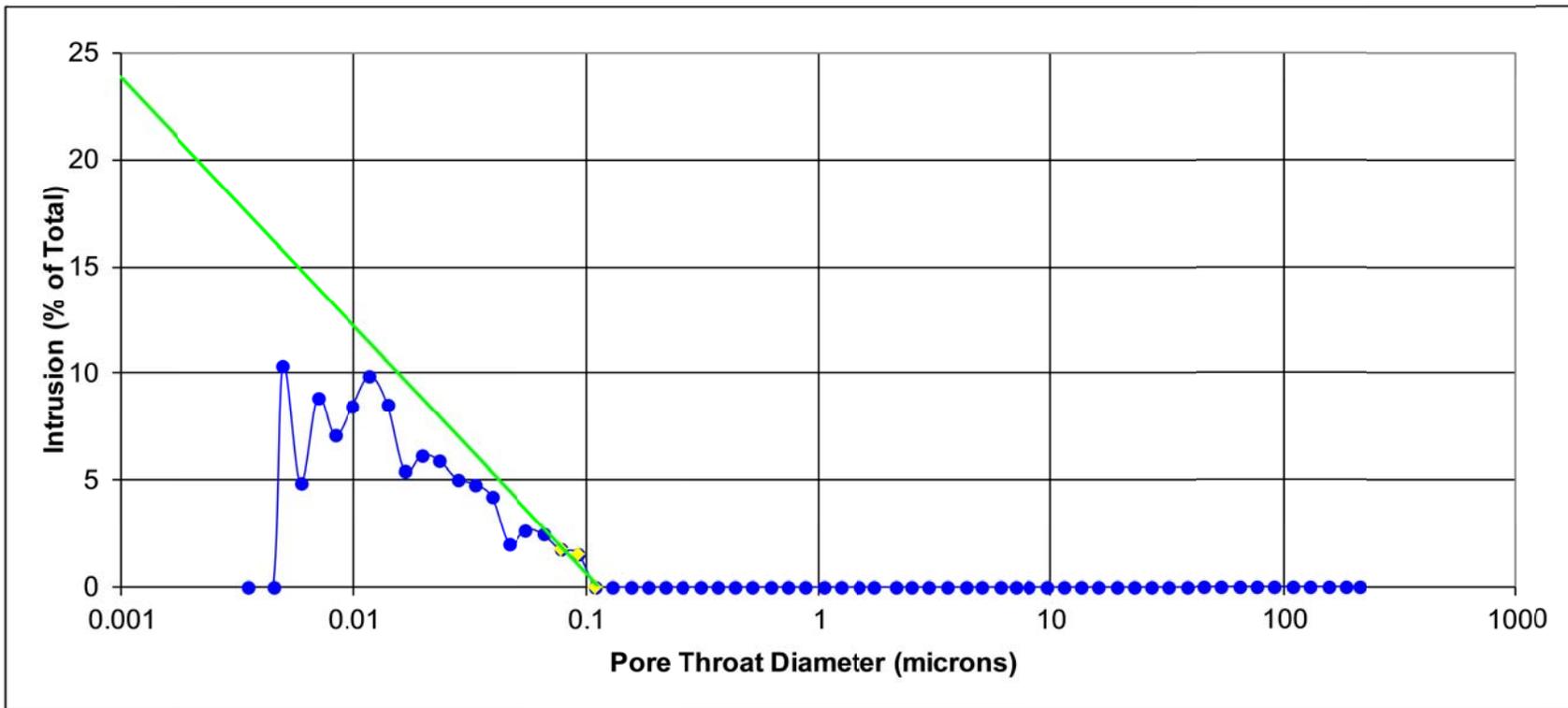


Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample R61
Depth 3896.50 m

Ambient Permeability 0.042 mD
Ambient Porosity 2.7 %



INTERPRETED CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2
Test Method Air/Mercury Capillary Pressure Drainage
Sample S23
Depth 3896.55 m
Ambient Permeability 0.013 mD
Ambient Porosity 2.3 %
Pore radius 0.07 µm

Pressure Gradients, psi/foot		Conversion Parameters				
		Typical	Laboratory Θ	air/mercury	air/water	air/oil
Water:	0.440	Laboratory IFT	140	0.0	0.0	30.0
Oil:	0.330	Reservoir Θ	480	72.0	24.0	48.0
Gas:	0.100	Laboratory Tcos Θ		0.0		30.0
		Reservoir IFT		50.0		30.0
		Laboratory Tcos Θ	367	72.0	24.0	42.0
		Reservoir Tcos Θ		50.0		26.0
		Entry Pressure (psi)	Displacement Pressure (psi)		Threshold Pressure (psi)	
System	Lab	Resv	Lab	Resv	Lab	Resv
A-Hg	1613	-	1704	-	3745	-
G-W	316	220	334	233	734	512
O-W	185	114	195	120	429	264

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
1.00	0.0	0.0	0.0	0.0	212	0.20	0.14	0.11	0.07	0.20	0.12
1.16	0.4	0.4	0.0	0.0	183	0.23	0.16	0.13	0.08	0.23	0.14
1.38	0.4	0.9	0.0	0.0	154	0.27	0.19	0.16	0.10	0.27	0.17
1.64	0.3	1.2	0.0	0.0	130	0.32	0.22	0.19	0.12	0.32	0.20
1.94	0.3	1.4	0.0	0.0	109	0.38	0.27	0.22	0.14	0.38	0.24
2.31	0.2	1.7	0.0	0.0	91.6	0.45	0.32	0.26	0.16	0.45	0.28
2.76	0.3	1.9	0.0	0.0	76.9	0.54	0.38	0.32	0.20	0.54	0.34
3.28	0.2	2.1	0.0	0.0	64.6	0.64	0.45	0.38	0.23	0.64	0.40
3.91	0.2	2.4	0.0	0.0	54.2	0.77	0.53	0.45	0.28	0.77	0.48
4.65	0.1	2.5	0.0	0.0	45.6	0.91	0.63	0.53	0.33	0.91	0.57
5.53	0.2	2.7	0.0	0.0	38.3	1.08	0.75	0.63	0.39	1.09	0.67
6.58	0.2	2.9	0.0	0.0	32.2	1.29	0.90	0.75	0.47	1.29	0.80
7.83	0.2	3.1	0.0	0.0	27.1	1.54	1.07	0.90	0.56	1.54	0.96
9.31	0.1	3.2	0.0	0.0	22.8	1.83	1.27	1.07	0.66	1.83	1.14
11.1	0.2	3.4	0.0	0.0	19.2	2.18	1.51	1.27	0.79	2.18	1.35
13.1	0.2	3.6	0.0	0.0	16.1	2.57	1.78	1.50	0.93	2.57	1.60
15.6	0.3	3.8	0.0	0.0	13.6	3.06	2.13	1.79	1.11	3.08	1.91

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
18.6	0.3	4.1	0.0	0.0	11.4	3.65	2.53	2.13	1.32	3.66	2.27
22.1	0.7	4.8	0.0	0.0	9.61	4.34	3.01	2.53	1.57	4.35	2.70
26.2	1.1	5.9	0.0	0.0	8.09	5.14	3.57	3.00	1.86	5.15	3.20
30.0	1.2	7.1	0.0	0.0	7.07	5.89	4.09	3.43	2.12	5.87	3.67
35.5	0.3	7.4	0.0	0.0	5.97	6.96	4.83	4.06	2.51	6.95	4.33
42.8	0.4	7.8	0.0	0.0	4.95	8.40	5.83	4.90	3.03	8.40	5.23
49.3	0.0	7.9	0.0	0.0	4.30	9.67	6.72	5.64	3.49	9.67	6.02
58.6	0.0	7.9	0.0	0.0	3.62	11.5	7.99	6.71	4.15	11.5	7.16
69.8	0.1	8.0	0.0	0.0	3.04	13.7	9.51	7.99	4.95	13.7	8.53
84.9	0.1	8.1	0.0	0.0	2.50	16.7	11.6	9.72	6.02	16.7	10.4
100	0.1	8.2	0.0	0.0	2.12	19.6	13.6	11.4	7.06	19.6	12.2
119	0.2	8.4	0.0	0.0	1.78	23.3	16.2	13.6	8.42	23.3	14.5
144	0.2	8.6	0.0	0.0	1.47	28.3	19.7	16.5	10.2	28.3	17.7
170	0.2	8.8	0.0	0.0	1.25	33.4	23.2	19.5	12.1	33.5	20.8
203	0.2	9.0	0.0	0.0	1.04	39.8	27.6	23.2	14.4	39.9	24.7
241	0.3	9.2	0.0	0.0	0.879	47.3	32.8	27.6	17.1	47.4	29.4
287	0.3	9.6	0.0	0.0	0.739	56.3	39.1	32.8	20.3	56.2	35.1
342	0.4	10.0	0.0	0.0	0.620	67.1	46.6	39.1	24.2	67.1	41.8
407	0.4	10.4	0.0	0.0	0.521	79.8	55.4	46.6	28.8	79.8	49.7
485	0.4	10.8	0.0	0.0	0.437	95.1	66.0	55.5	34.4	95.3	59.2
576	0.5	11.3	0.0	0.0	0.368	113	78.5	65.9	40.8	113	70.4
683	0.5	11.8	0.0	0.0	0.310	134	93.1	78.2	48.4	134	83.5
815	0.6	12.3	0.0	0.0	0.260	160	111	93.3	57.8	160	99.5
966	0.6	13.0	0.0	0.0	0.219	190	132	111	68.7	190	118
1149	0.8	13.7	0.0	0.0	0.185	225	156	131	81.1	225	140
1365	0.9	14.6	0.0	0.0	0.155	268	186	156	96.6	268	167
1620	1.0	15.6	0.0	0.0	0.131	318	221	185	115	319	198
1925	1.4	17.0	1.6	1.6	0.110	378	263	220	136	377	236
2287	1.7	18.7	2.0	3.6	0.0927	449	312	262	162	449	280
2717	1.9	20.6	2.2	5.9	0.0780	533	370	311	193	535	332
3226	1.9	22.5	2.3	8.2	0.0657	633	440	369	228	632	394
3832	2.2	24.7	2.6	10.8	0.0553	752	522	439	272	754	468
4551	2.5	27.2	2.9	13.7	0.0466	893	620	521	323	895	556
5405	2.6	29.8	3.1	16.8	0.0392	1060	736	619	383	1061	660
6417	3.4	33.2	4.0	20.8	0.0330	1259	874	734	454	1258	784

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
7621	3.6	36.8	4.2	25.0	0.0278	1495	1038	872	540	1496	931
9052	4.6	41.4	5.5	30.5	0.0234	1776	1233	1036	641	1776	1105
10749	4.9	46.3	5.9	36.4	0.0197	2109	1465	1230	761	2109	1313
12768	6.5	52.8	7.7	44.0	0.0166	2505	1740	1461	904	2505	1560
15162	7.2	60.0	8.6	52.6	0.0140	2975	2066	1735	1074	2976	1852
18007	7.7	67.8	9.2	61.8	0.0118	3533	2453	2061	1276	3536	2199
21385	7.0	74.8	8.3	70.1	0.0099	4195	2913	2447	1515	4198	2611
25399	5.8	80.6	6.9	77.0	0.0083	4983	3460	2907	1800	4988	3102
30164	6.9	87.5	8.1	85.1	0.0070	5918	4110	3452	2137	5921	3684
35817	4.0	91.4	4.7	89.8	0.0059	7027	4880	4099	2537	7030	4375
42533	4.0	95.4	4.8	94.6	0.0050	8344	5794	4868	3014	8352	5194
46893	4.2	99.7	5.0	99.6	0.0045	9200	6389	5367	3322	9205	5728
59947	0.3	100.0	0.4	100.0	0.0035	11761	8167	6860	4247	11768	7321

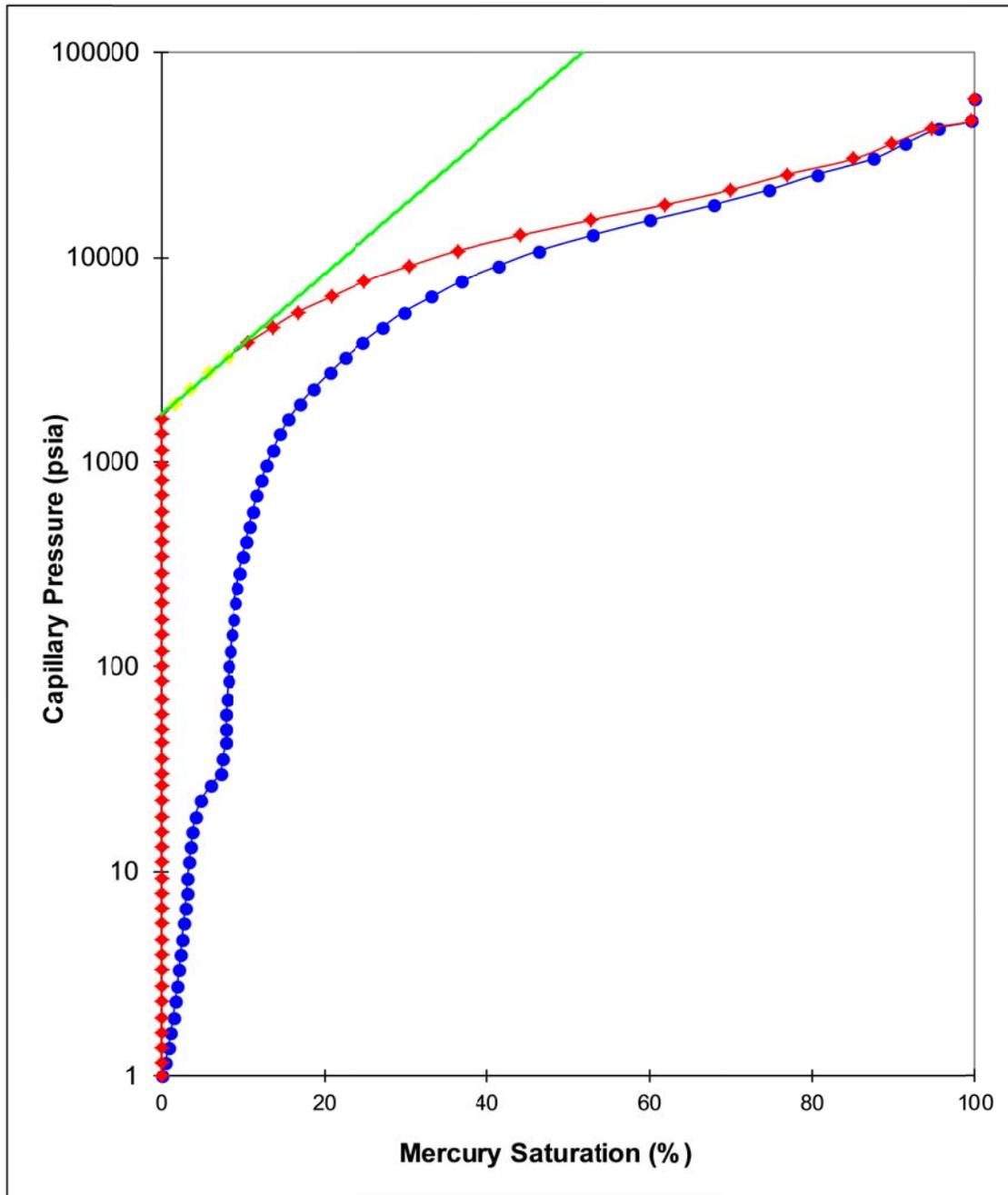
CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample S23 **Ambient Permeability** 0.013 mD
Depth 3896.55 m **Ambient Porosity** 2.3 %



PORE SIZE DISTRIBUTION

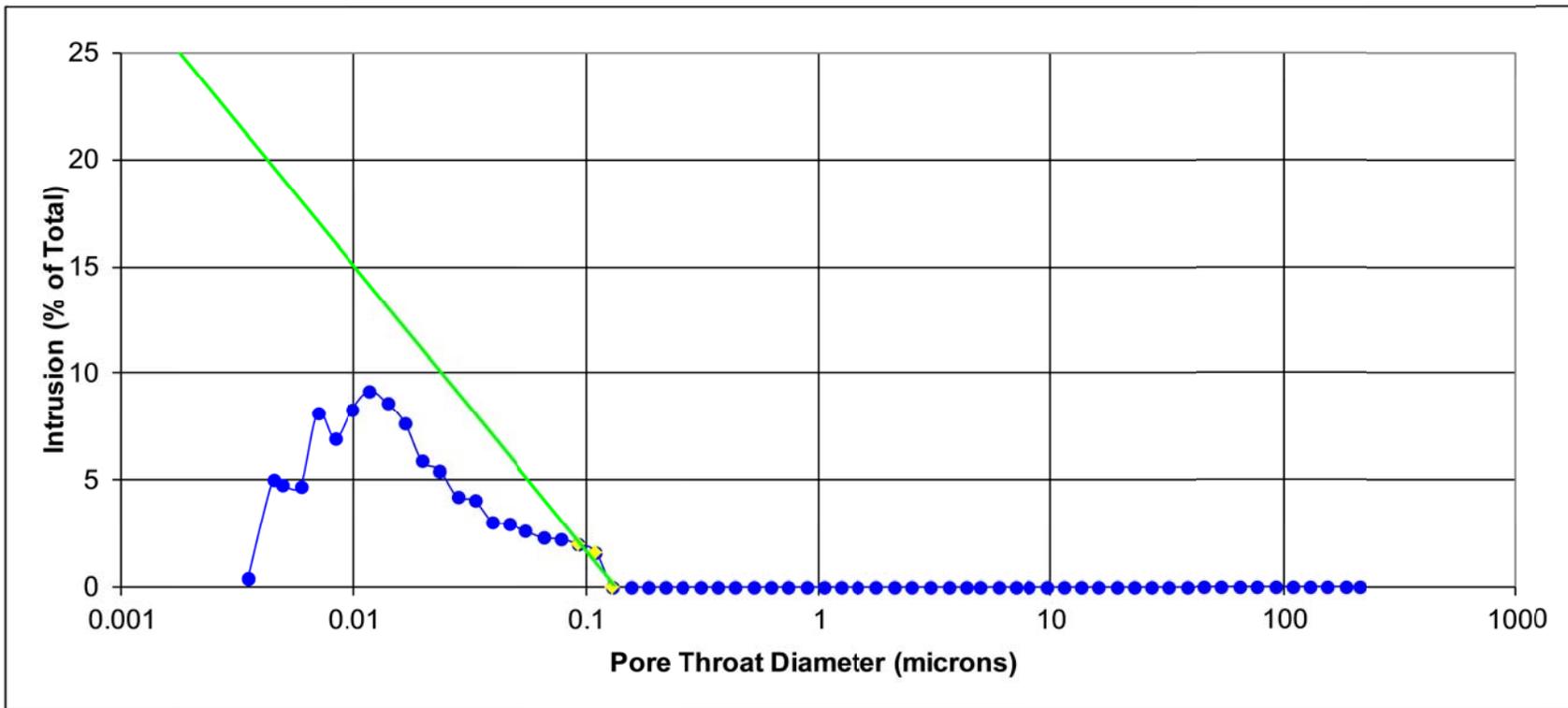


Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample S23
Depth 3896.55 m

Ambient Permeability 0.013 mD
Ambient Porosity 2.3 %



INTERPRETED CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2
Test Method Air/Mercury Capillary Pressure Drainage
Sample S24
Depth 3897.65 m
Ambient Permeability 0.0037 mD
Ambient Porosity 3.4 %
Pore radius 0.06 µm

Pressure Gradients, psi/foot		Conversion Parameters				
	Typical		air/mercury	air/water	air/oil	oil/water
Water:	0.440	Laboratory Θ	140	0.0	0.0	30.0
Oil:	0.330	Laboratory IFT	480	72.0	24.0	48.0
Gas:	0.100	Reservoir Θ		0.0		30.0
		Reservoir IFT		50.0		30.0
		Laboratory Tcos Θ	367	72.0	24.0	42.0
		Reservoir Tcos Θ		50.0		26.0
		Entry Pressure (psi)	Displacement Pressure (psi)		Threshold Pressure (psi)	
System	Lab	Resv	Lab	Resv	Lab	Resv
A-Hg	1901	-	2117	-	3851	-
G-W	373	259	415	288	755	524
O-W	218	135	243	150	442	273

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
1.00	0.0	0.0	0.0	0.0	212	0.20	0.14	0.11	0.07	0.20	0.12
1.15	0.2	0.2	0.0	0.0	184	0.23	0.16	0.13	0.08	0.23	0.14
1.37	0.3	0.5	0.0	0.0	155	0.27	0.19	0.16	0.10	0.27	0.17
1.63	0.2	0.8	0.0	0.0	130	0.32	0.22	0.19	0.12	0.32	0.20
1.94	0.3	1.0	0.0	0.0	109	0.38	0.27	0.22	0.14	0.38	0.24
2.31	0.2	1.2	0.0	0.0	91.6	0.45	0.32	0.26	0.16	0.45	0.28
2.76	0.2	1.5	0.0	0.0	76.8	0.54	0.38	0.32	0.20	0.54	0.34
3.28	0.1	1.6	0.0	0.0	64.6	0.64	0.45	0.38	0.23	0.64	0.40
3.91	0.2	1.8	0.0	0.0	54.3	0.77	0.53	0.45	0.28	0.77	0.48
4.65	0.2	2.0	0.0	0.0	45.6	0.91	0.63	0.53	0.33	0.91	0.57
5.53	0.2	2.2	0.0	0.0	38.3	1.08	0.75	0.63	0.39	1.09	0.67
6.58	0.0	2.3	0.0	0.0	32.2	1.29	0.90	0.75	0.47	1.29	0.80
7.82	0.2	2.5	0.0	0.0	27.1	1.53	1.06	0.90	0.55	1.54	0.95
9.30	0.3	2.7	0.0	0.0	22.8	1.82	1.26	1.06	0.66	1.82	1.13
11.1	0.2	2.9	0.0	0.0	19.2	2.18	1.51	1.27	0.79	2.18	1.35
13.1	0.2	3.2	0.0	0.0	16.1	2.57	1.78	1.50	0.93	2.57	1.60
15.6	0.2	3.4	0.0	0.0	13.6	3.06	2.13	1.79	1.11	3.08	1.91

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
18.6	0.2	3.6	0.0	0.0	11.4	3.65	2.53	2.13	1.32	3.66	2.27
22.1	0.3	3.9	0.0	0.0	9.61	4.34	3.01	2.53	1.57	4.35	2.70
26.2	0.3	4.2	0.0	0.0	8.09	5.14	3.57	3.00	1.86	5.15	3.20
30.0	0.4	4.6	0.0	0.0	7.07	5.89	4.09	3.43	2.12	5.87	3.67
32.9	0.0	4.6	0.0	0.0	6.45	6.45	4.48	3.77	2.33	6.46	4.02
42.2	0.1	4.7	0.0	0.0	5.02	8.28	5.75	4.83	2.99	8.29	5.15
48.7	0.1	4.8	0.0	0.0	4.36	9.55	6.63	5.57	3.45	9.56	5.94
59.0	0.0	4.8	0.0	0.0	3.59	11.6	8.06	6.75	4.18	11.6	7.23
69.5	0.0	4.8	0.0	0.0	3.05	13.6	9.44	7.95	4.92	13.6	8.46
84.7	0.2	5.0	0.0	0.0	2.50	16.6	11.5	9.69	6.00	16.6	10.3
101	0.2	5.2	0.0	0.0	2.10	19.8	13.8	11.6	7.18	19.9	12.4
121	0.2	5.4	0.0	0.0	1.76	23.7	16.5	13.8	8.54	23.7	14.8
143	0.2	5.6	0.0	0.0	1.49	28.1	19.5	16.4	10.2	28.3	17.5
171	0.1	5.8	0.0	0.0	1.24	33.5	23.3	19.6	12.1	33.5	20.9
204	0.3	6.1	0.0	0.0	1.04	40.0	27.8	23.3	14.4	39.9	24.9
241	0.3	6.3	0.0	0.0	0.881	47.3	32.8	27.6	17.1	47.4	29.4
287	0.3	6.6	0.0	0.0	0.738	56.3	39.1	32.8	20.3	56.2	35.1
342	0.3	6.9	0.0	0.0	0.619	67.1	46.6	39.1	24.2	67.1	41.8
407	0.4	7.3	0.0	0.0	0.520	79.8	55.4	46.6	28.8	79.8	49.7
484	0.3	7.6	0.0	0.0	0.438	95.0	66.0	55.4	34.3	95.0	59.2
578	0.5	8.1	0.0	0.0	0.367	113	78.5	66.1	40.9	113	70.4
683	0.4	8.5	0.0	0.0	0.310	134	93.1	78.2	48.4	134	83.5
813	0.6	9.2	0.0	0.0	0.261	159	110	93.0	57.6	160	98.6
966	0.6	9.7	0.0	0.0	0.219	190	132	111	68.7	190	118
1149	0.7	10.4	0.0	0.0	0.185	225	156	131	81.1	225	140
1364	0.7	11.1	0.0	0.0	0.155	268	186	156	96.6	268	167
1619	1.0	12.1	0.0	0.0	0.131	318	221	185	115	319	198
1924	1.1	13.2	0.0	0.0	0.110	377	262	220	136	377	235
2286	1.3	14.5	1.5	1.5	0.0927	448	311	262	162	449	279
2718	2.0	16.5	2.3	3.8	0.0780	533	370	311	193	535	332
3226	3.1	19.5	3.5	7.3	0.0657	633	440	369	228	632	394
3832	2.2	21.7	2.6	9.8	0.0553	752	522	439	272	754	468
4549	3.3	25.0	3.8	13.6	0.0466	892	619	521	323	895	555
5403	3.8	28.8	4.4	18.0	0.0392	1060	736	618	383	1061	660
6417	3.9	32.7	4.5	22.5	0.0330	1259	874	734	454	1258	784

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
7621	4.9	37.6	5.7	28.2	0.0278	1495	1038	872	540	1496	931
9051	6.1	43.7	7.0	35.2	0.0234	1776	1233	1036	641	1776	1105
10750	7.4	51.1	8.5	43.7	0.0197	2109	1465	1230	761	2109	1313
12767	7.7	58.8	8.8	52.5	0.0166	2505	1740	1461	904	2505	1560
15163	9.2	68.0	10.7	63.2	0.0140	2975	2066	1735	1074	2976	1852
17996	6.0	74.1	6.9	70.1	0.0118	3531	2452	2059	1275	3533	2198
21385	8.0	82.1	9.2	79.4	0.0099	4195	2913	2447	1515	4198	2611
25398	6.4	88.5	7.4	86.8	0.0083	4983	3460	2907	1800	4988	3102
30163	5.4	93.9	6.2	93.0	0.0070	5918	4110	3452	2137	5921	3684
35818	3.0	96.9	3.4	96.4	0.0059	7027	4880	4099	2537	7030	4375
42525	1.9	98.8	2.2	98.6	0.0050	8343	5794	4867	3013	8349	5194
46877	0.9	99.6	1.0	99.6	0.0045	9197	6387	5365	3321	9202	5726
59946	0.4	100.0	0.4	100.0	0.0035	11761	8167	6860	4247	11768	7321

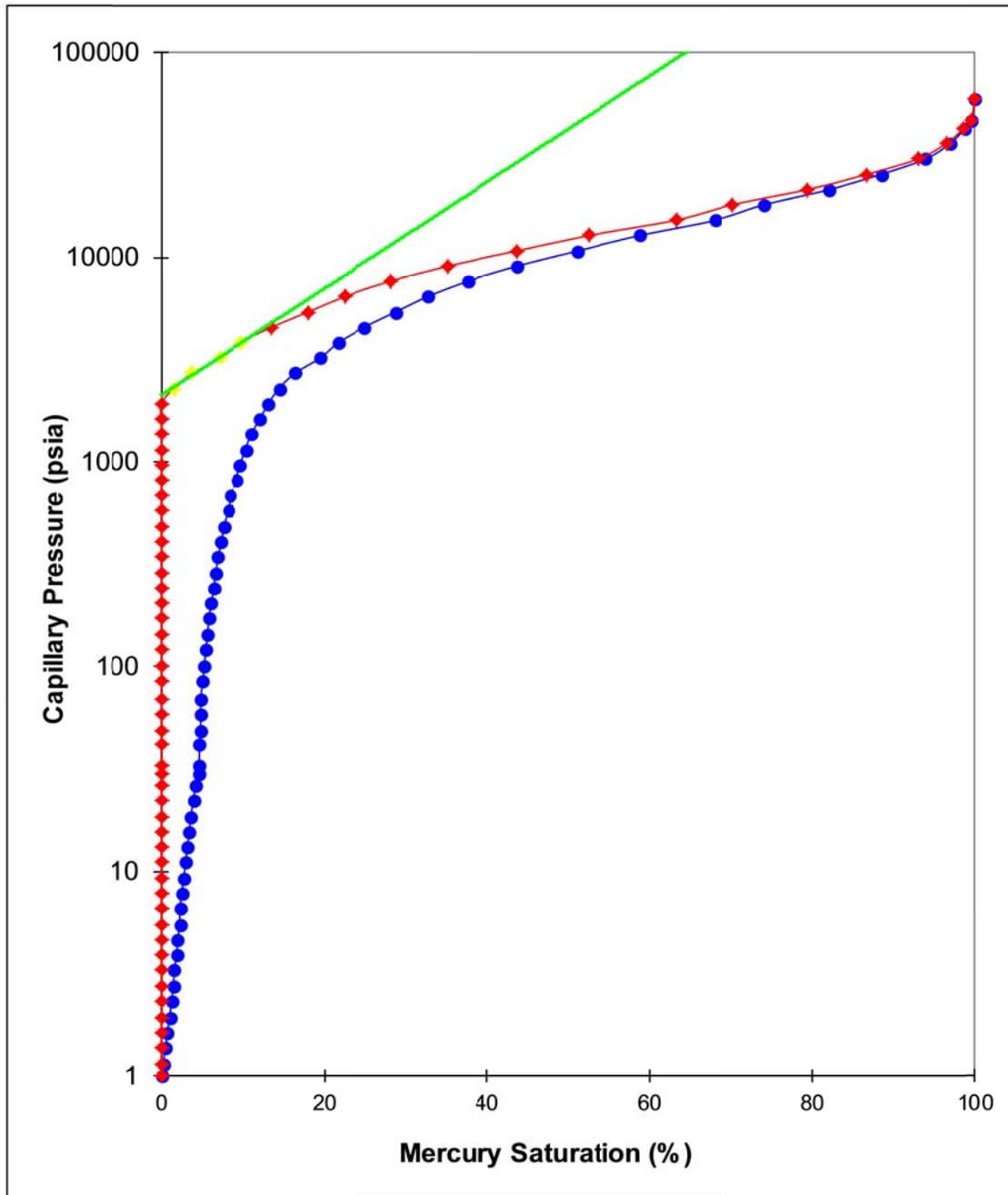
CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample S24 **Ambient Permeability** 0.0037 mD
Depth 3897.65 m **Ambient Porosity** 3.4 %



PORE SIZE DISTRIBUTION

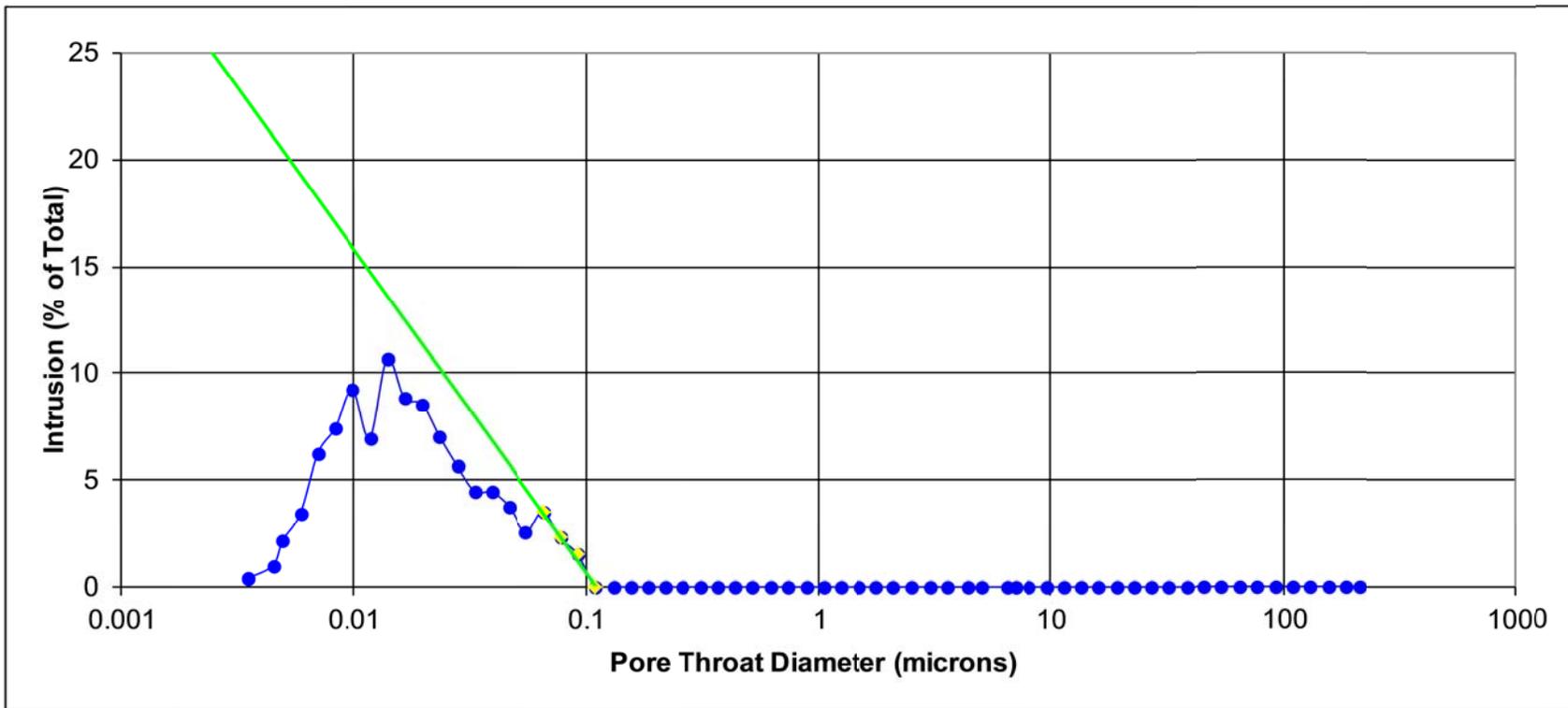


Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample S24
Depth 3897.65 m

Ambient Permeability 0.0037 mD
Ambient Porosity 3.4 %



INTERPRETED CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2
Test Method Air/Mercury Capillary Pressure Drainage
Sample R63
Depth 3897.70 m
Ambient Permeability 0.0031 mD
Ambient Porosity 3.5 %
Pore radius 0.07 µm

Pressure Gradients, psi/foot		Conversion Parameters				
		Typical	Laboratory Θ	air/mercury	air/water	air/oil
Water:	0.440	Laboratory IFT	140	0.0	0.0	30.0
Oil:	0.330	Reservoir Θ	480	72.0	24.0	48.0
Gas:	0.100	Laboratory Tcos Θ		0.0		30.0
		Reservoir IFT		50.0		30.0
		Laboratory Tcos Θ	367	72.0	24.0	42.0
		Reservoir Tcos Θ		50.0		26.0
		Entry Pressure (psi)	Displacement Pressure (psi)		Threshold Pressure (psi)	
System	Lab	Resv	Lab	Resv	Lab	Resv
A-Hg	1613	-	1721	-	3974	-
G-W	316	220	337	235	778	543
O-W	185	114	197	121	455	279

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
1.00	0.0	0.0	0.0	0.0	212	0.20	0.14	0.11	0.07	0.20	0.12
1.15	0.6	0.6	0.0	0.0	184	0.23	0.16	0.13	0.08	0.23	0.14
1.37	0.6	1.2	0.0	0.0	155	0.27	0.19	0.16	0.10	0.27	0.17
1.63	0.5	1.7	0.0	0.0	130	0.32	0.22	0.19	0.12	0.32	0.20
1.94	0.5	2.1	0.0	0.0	109	0.38	0.27	0.22	0.14	0.38	0.24
2.31	0.3	2.4	0.0	0.0	91.6	0.45	0.32	0.26	0.16	0.45	0.28
2.76	0.3	2.8	0.0	0.0	76.8	0.54	0.38	0.32	0.20	0.54	0.34
3.28	0.3	3.0	0.0	0.0	64.6	0.64	0.45	0.38	0.23	0.64	0.40
3.91	0.3	3.3	0.0	0.0	54.3	0.77	0.53	0.45	0.28	0.77	0.48
4.65	0.2	3.5	0.0	0.0	45.6	0.91	0.63	0.53	0.33	0.91	0.57
5.53	0.2	3.7	0.0	0.0	38.3	1.08	0.75	0.63	0.39	1.09	0.67
6.58	0.1	3.8	0.0	0.0	32.2	1.29	0.90	0.75	0.47	1.29	0.80
7.82	0.2	4.0	0.0	0.0	27.1	1.53	1.06	0.90	0.55	1.54	0.95
9.30	0.3	4.3	0.0	0.0	22.8	1.82	1.26	1.06	0.66	1.82	1.13
11.1	0.2	4.5	0.0	0.0	19.2	2.18	1.51	1.27	0.79	2.18	1.35
13.1	0.2	4.7	0.0	0.0	16.1	2.57	1.78	1.50	0.93	2.57	1.60
15.6	0.2	4.9	0.0	0.0	13.6	3.06	2.13	1.79	1.11	3.08	1.91

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
18.6	0.2	5.1	0.0	0.0	11.4	3.65	2.53	2.13	1.32	3.66	2.27
22.1	0.4	5.5	0.0	0.0	9.61	4.34	3.01	2.53	1.57	4.35	2.70
26.2	0.4	5.9	0.0	0.0	8.09	5.14	3.57	3.00	1.86	5.15	3.20
30.0	0.4	6.3	0.0	0.0	7.07	5.89	4.09	3.43	2.12	5.87	3.67
34.8	0.0	6.3	0.0	0.0	6.09	6.83	4.74	3.98	2.46	6.82	4.25
42.2	0.0	6.3	0.0	0.0	5.03	8.28	5.75	4.83	2.99	8.29	5.15
48.6	0.1	6.4	0.0	0.0	4.36	9.53	6.62	5.56	3.44	9.53	5.93
58.9	0.1	6.5	0.0	0.0	3.60	11.6	8.06	6.74	4.17	11.6	7.23
69.5	0.0	6.5	0.0	0.0	3.05	13.6	9.44	7.95	4.92	13.6	8.46
84.7	0.2	6.7	0.0	0.0	2.50	16.6	11.5	9.69	6.00	16.6	10.3
101	0.2	6.8	0.0	0.0	2.10	19.8	13.8	11.6	7.18	19.9	12.4
121	0.2	7.0	0.0	0.0	1.76	23.7	16.5	13.8	8.54	23.7	14.8
143	0.1	7.1	0.0	0.0	1.49	28.1	19.5	16.4	10.2	28.3	17.5
171	0.1	7.3	0.0	0.0	1.24	33.5	23.3	19.6	12.1	33.5	20.9
204	0.3	7.5	0.0	0.0	1.04	40.0	27.8	23.3	14.4	39.9	24.9
241	0.2	7.8	0.0	0.0	0.881	47.3	32.8	27.6	17.1	47.4	29.4
287	0.3	8.0	0.0	0.0	0.738	56.3	39.1	32.8	20.3	56.2	35.1
342	0.3	8.3	0.0	0.0	0.619	67.1	46.6	39.1	24.2	67.1	41.8
407	0.4	8.6	0.0	0.0	0.520	79.8	55.4	46.6	28.8	79.8	49.7
484	0.3	9.0	0.0	0.0	0.438	95.0	66.0	55.4	34.3	95.0	59.2
578	0.5	9.5	0.0	0.0	0.367	113	78.5	66.1	40.9	113	70.4
683	0.5	10.0	0.0	0.0	0.310	134	93.1	78.2	48.4	134	83.5
813	0.8	10.7	0.0	0.0	0.261	159	110	93.0	57.6	160	98.6
966	0.8	11.5	0.0	0.0	0.219	190	132	111	68.7	190	118
1148	0.9	12.3	0.0	0.0	0.185	225	156	131	81.1	225	140
1364	0.9	13.3	0.0	0.0	0.155	268	186	156	96.6	268	167
1619	1.2	14.5	0.0	0.0	0.131	318	221	185	115	319	198
1924	1.3	15.8	1.5	1.5	0.110	377	262	220	136	377	235
2286	1.4	17.2	1.7	3.2	0.0927	448	311	262	162	449	279
2718	1.8	19.0	2.1	5.3	0.0780	533	370	311	193	535	332
3226	2.0	21.0	2.3	7.6	0.0657	633	440	369	228	632	394
3832	1.7	22.7	2.0	9.6	0.0553	752	522	439	272	754	468
4549	2.3	25.0	2.7	12.3	0.0466	892	619	521	323	895	555
5403	2.8	27.8	3.3	15.6	0.0392	1060	736	618	383	1061	660
6417	3.2	31.1	3.8	19.4	0.0330	1259	874	734	454	1258	784

Pressure (psi)	Raw Data		Conformance Corrected		Pore Diameter (µm)	Equivalent Air/Brine Lab (psi)	Injection Pressure Air/Brine Res Con (psi)	Oil/Brine Lab Conditions (psi)	Oil/Brine Reservoir Conditions (psi)	Height Above Free Water Oil-Water (metres)	Height Above Free Water Gas-Water (metres)
	Intrusion (%)	Saturation (%)	Intrusion (%)	Saturation (%)							
7621	4.7	35.8	5.5	24.9	0.0278	1495	1038	872	540	1496	931
9051	6.1	41.8	7.1	32.0	0.0234	1776	1233	1036	641	1776	1105
10750	7.6	49.4	8.9	40.9	0.0197	2109	1465	1230	761	2109	1313
12767	8.2	57.7	9.6	50.5	0.0166	2505	1740	1461	904	2505	1560
15163	9.0	66.7	10.6	61.1	0.0140	2975	2066	1735	1074	2976	1852
17996	5.9	72.6	6.9	68.0	0.0118	3531	2452	2059	1275	3533	2198
21385	7.4	80.0	8.6	76.6	0.0099	4195	2913	2447	1515	4198	2611
25397	6.0	85.9	7.0	83.6	0.0083	4983	3460	2906	1799	4985	3102
30163	5.4	91.3	6.3	89.9	0.0070	5918	4110	3452	2137	5921	3684
35818	3.7	95.1	4.4	94.3	0.0059	7027	4880	4099	2537	7030	4375
42524	2.8	97.9	3.2	97.5	0.0050	8343	5794	4867	3013	8349	5194
46876	1.0	98.9	1.2	98.7	0.0045	9196	6386	5365	3321	9202	5725
59945	1.1	100.0	1.3	100.0	0.0035	11760	8167	6860	4247	11768	7321

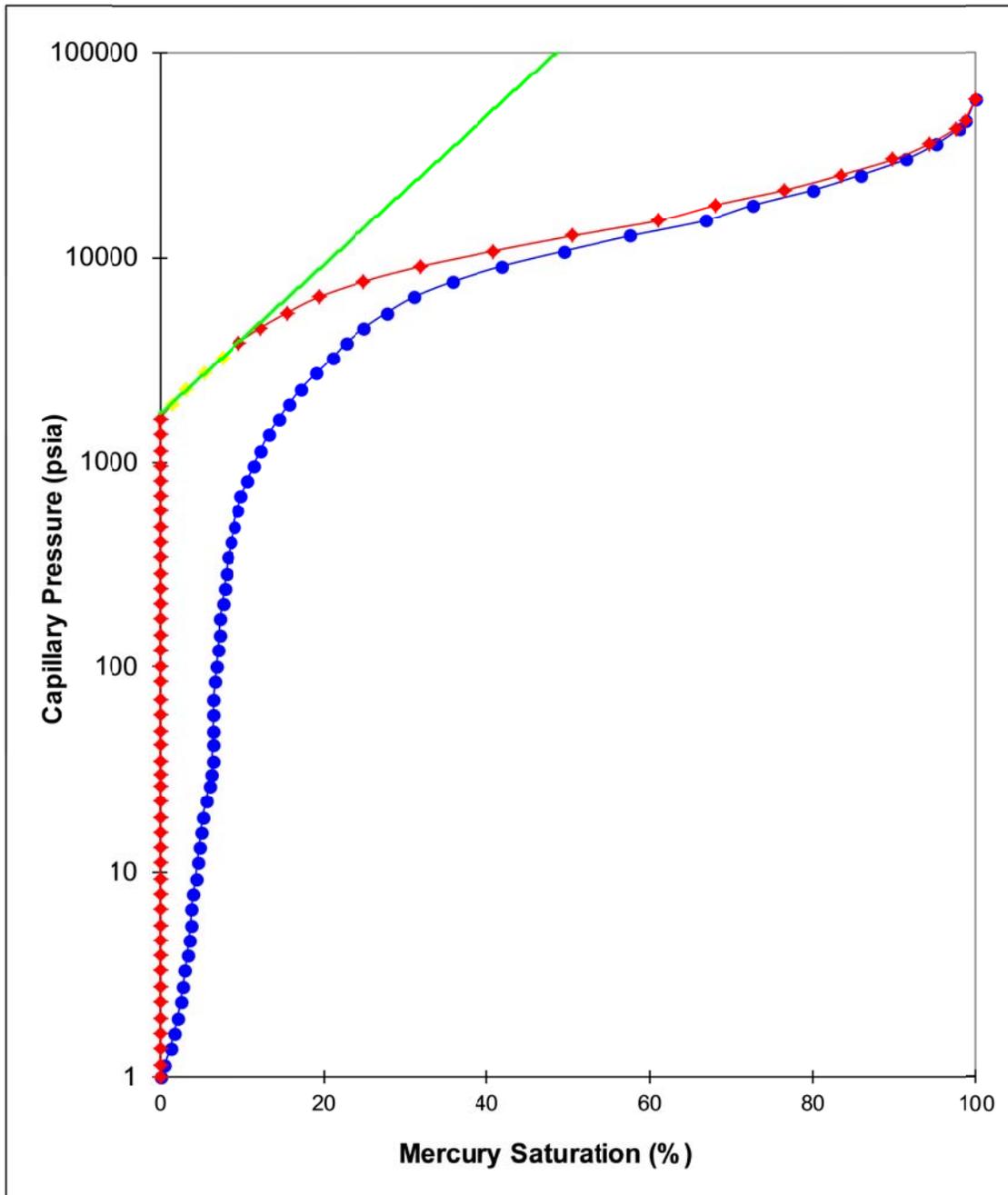
CAPILLARY PRESSURE



Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample R63 **Ambient Permeability** 0.0031 mD
Depth 3897.70 m **Ambient Porosity** 3.5 %



PORE SIZE DISTRIBUTION

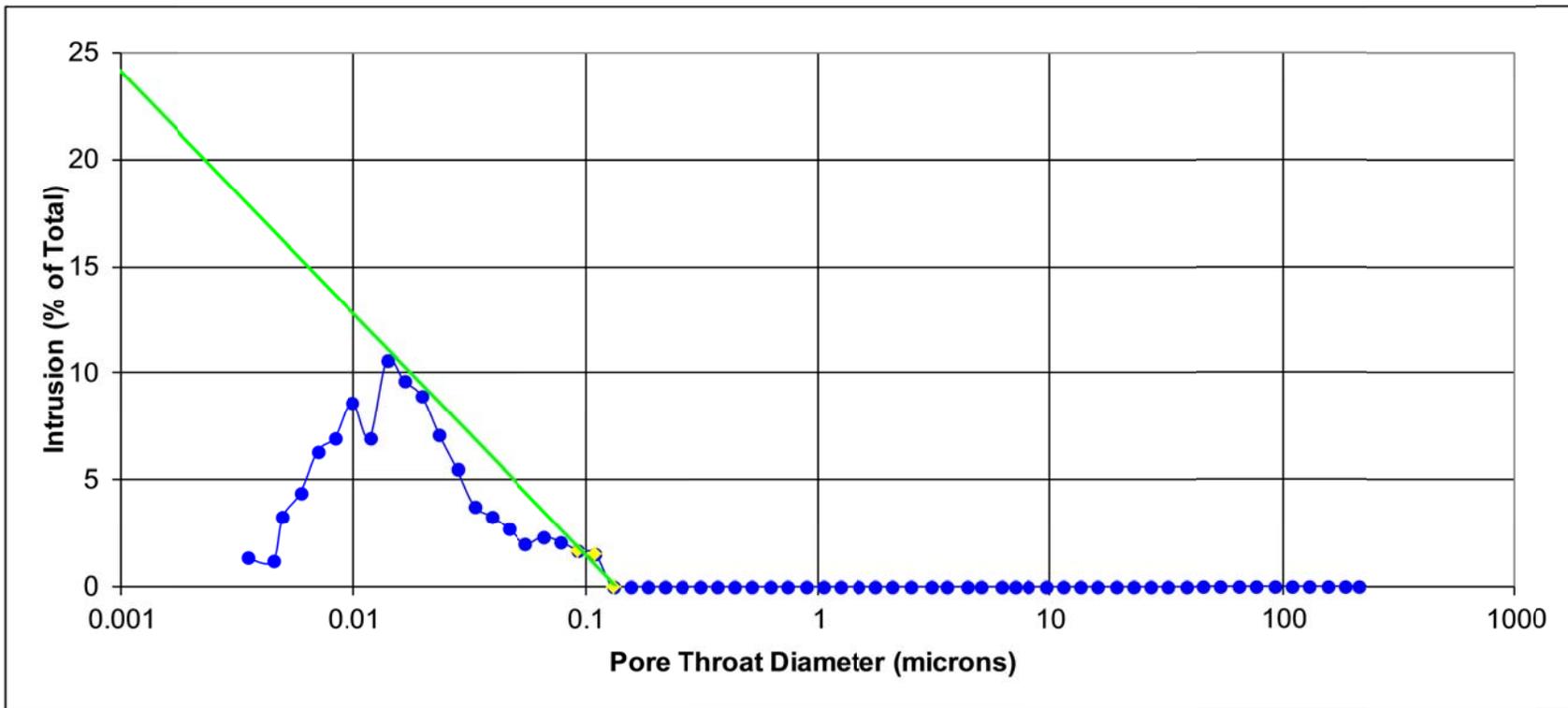


Client QGC - A BG Group business
Well Moa-2

Test Method Air/Mercury Capillary Pressure Drainage

Sample R63
Depth 3897.70 m

Ambient Permeability 0.0031 mD
Ambient Porosity 3.5 %





APPENDIX I

QGC – A BG Group Business

MOA-2

Fluid Properties

FLUID PROPERTIES

50,000 ppm NaCL equivalent

Density = 1.013 g/cm³ @ 25°C
Resistivity = 0.133 ohm.m @ 25°C



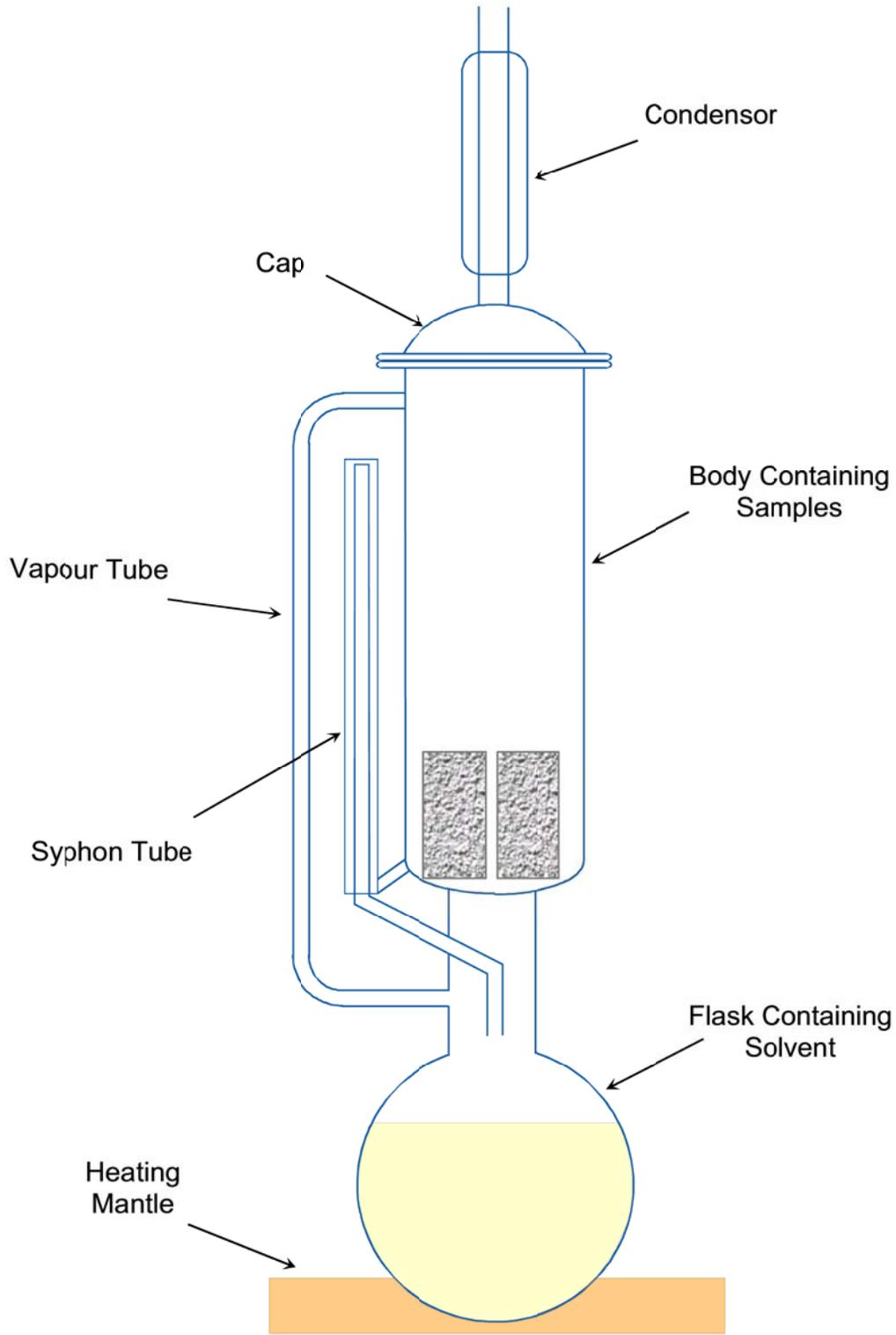
APPENDIX II

QGC – A BG Group Business

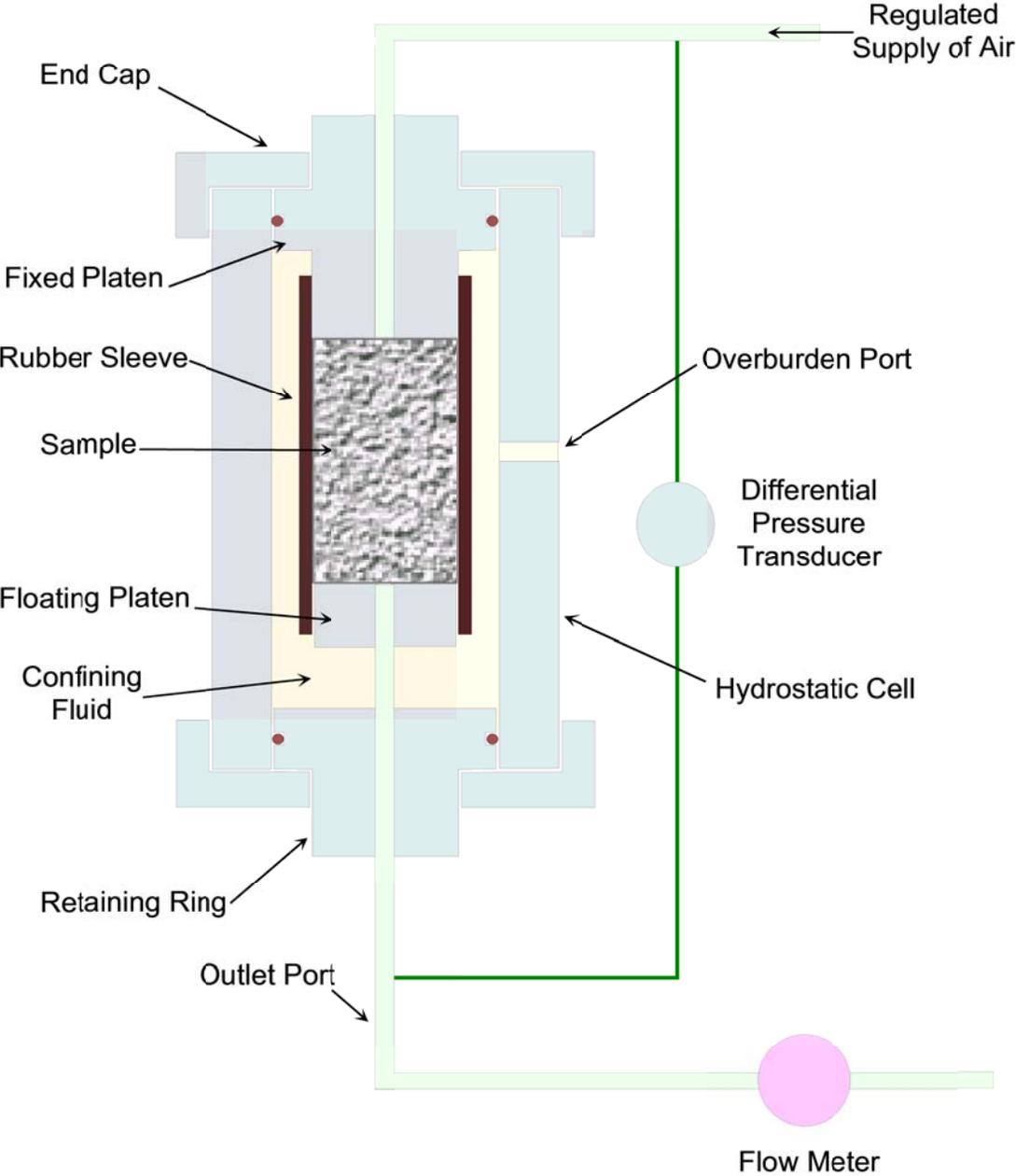
MOA-2

Equipment Schematics

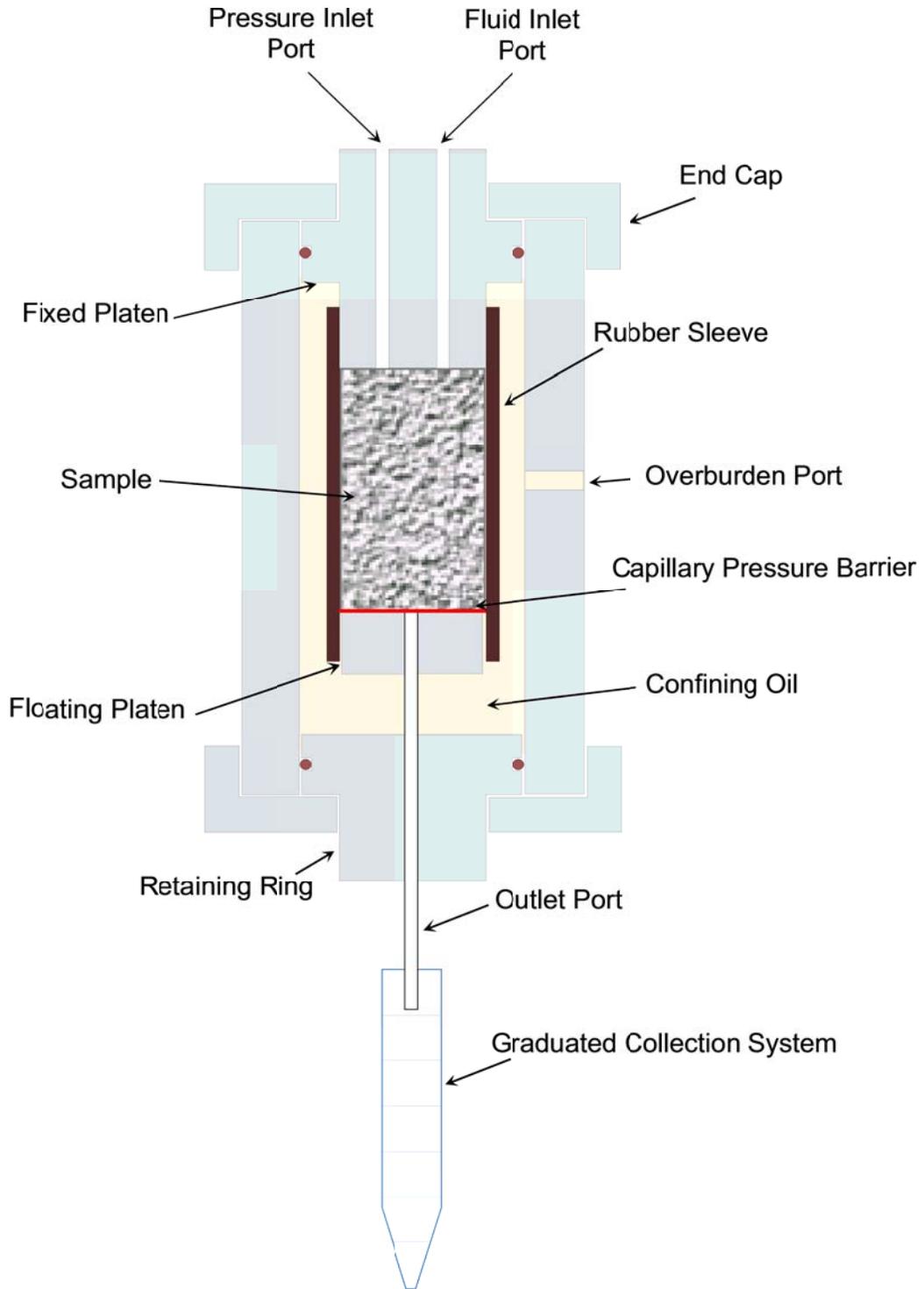
SOXHLET CLEANING APPARATUS



GAS PERMEAMETER SCHEMATIC (Hydrostatic)



HYDROSTATIC CAPILLARY PRESSURE CELL





APPENDIX III

QGC – A BG Group Business

MOA-2

Plug Photography



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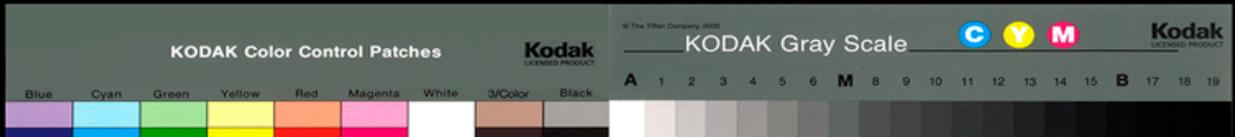
Front

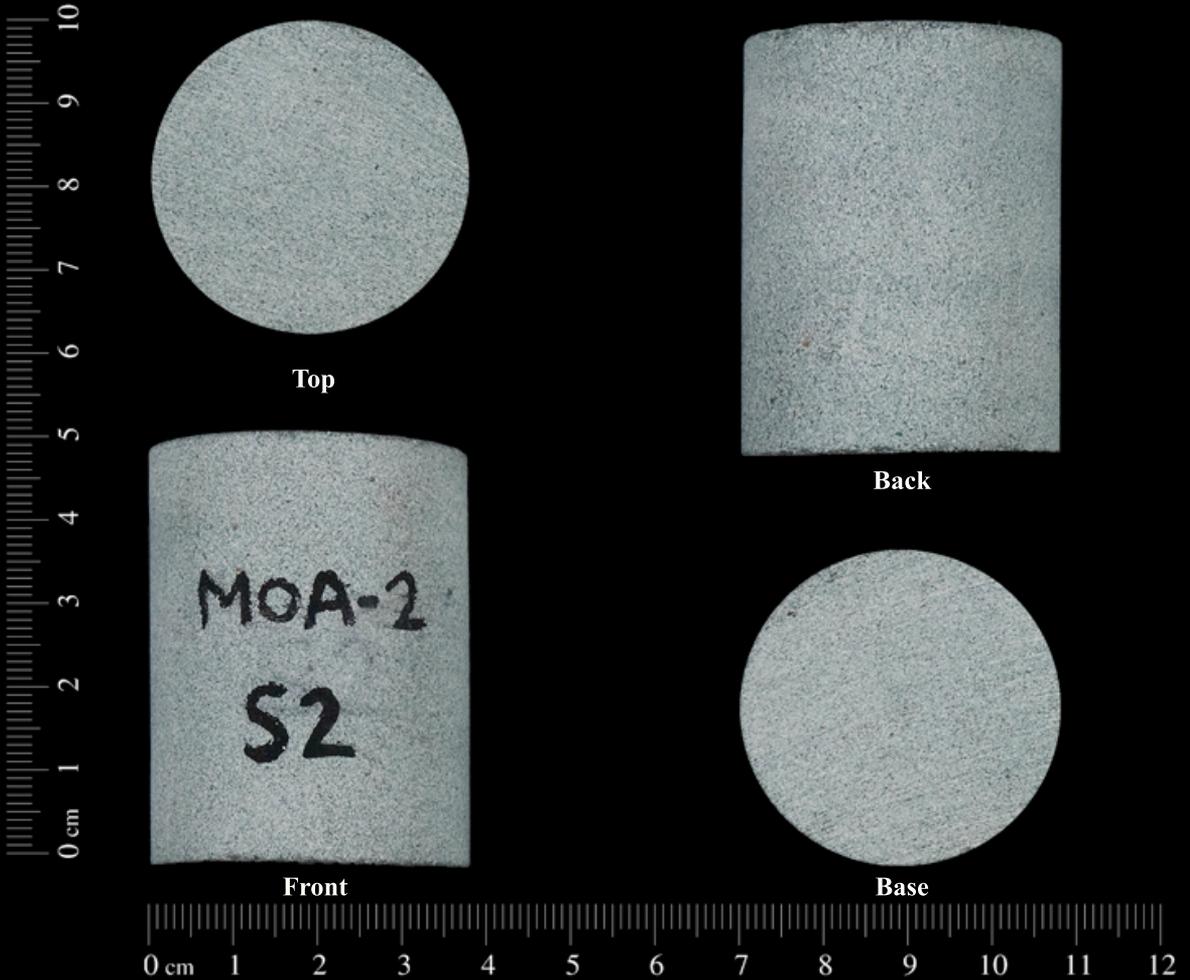


Base

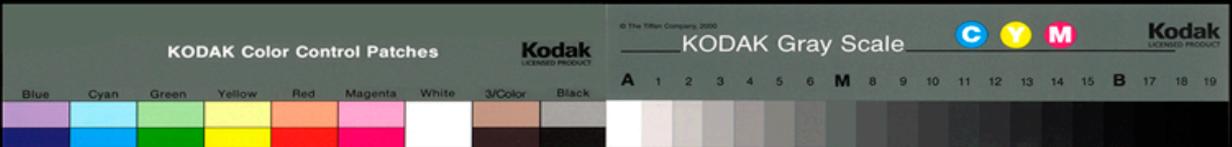


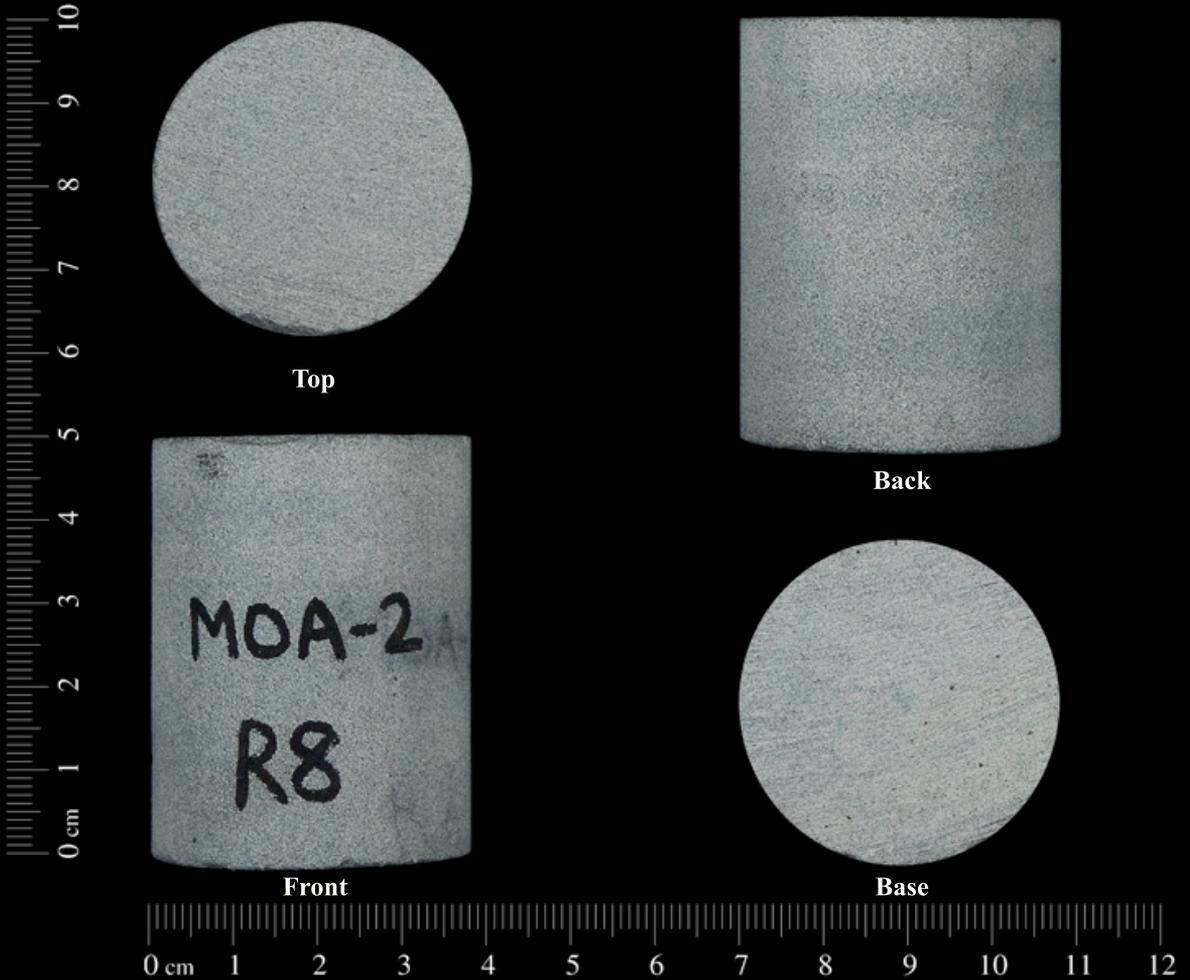
Sample No.:	R3
Depth:	3851.45 m
Permeability:	0.0035 mD
Porosity:	5.4 %



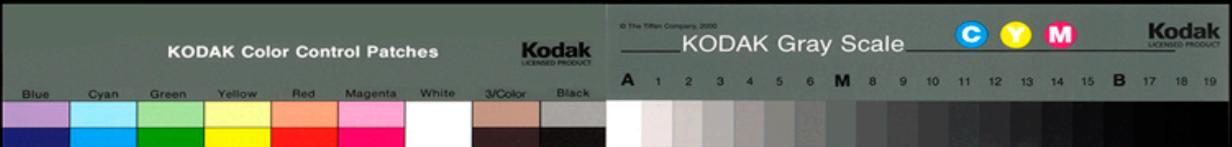


Sample No.:	S2
Depth:	3851.49 m
Permeability:	0.0016 mD
Porosity:	5.1 %





Sample No.:	R8
Depth:	3854.47 m
Permeability:	0.0076 mD
Porosity:	3.5 %





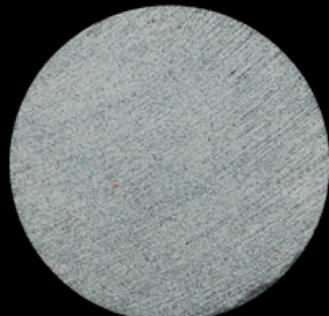
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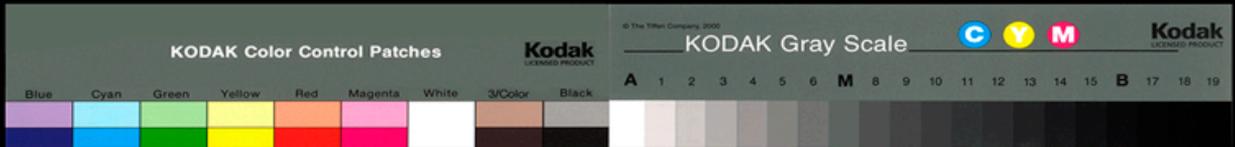
Front



Base



Sample No.:	S4
Depth:	3854.51 m
Permeability:	0.033 mD
Porosity:	3.8 %

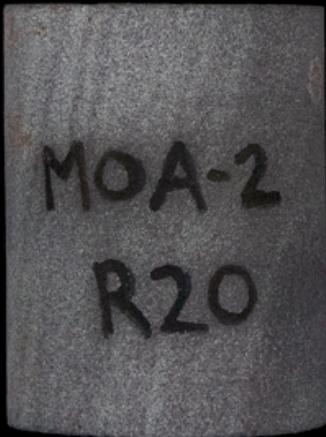




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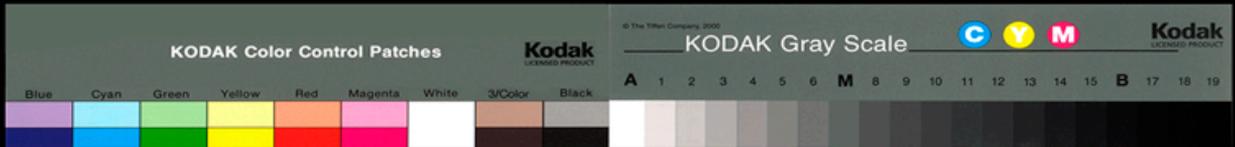
Front



Base



Sample No.:	R20
Depth:	3864.45 m
Permeability:	0.039 mD
Porosity:	3.2 %





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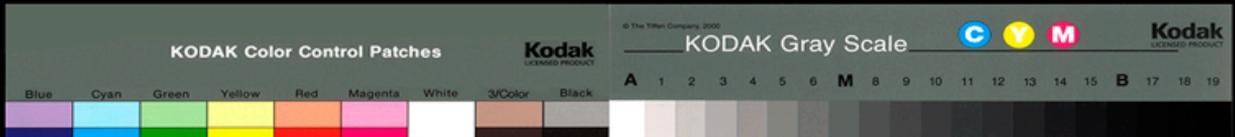
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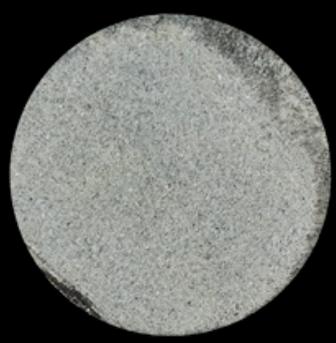


Base



Sample No.:	S8
Depth:	3864.50 m
Permeability:	0.011 mD
Porosity:	3.6 %





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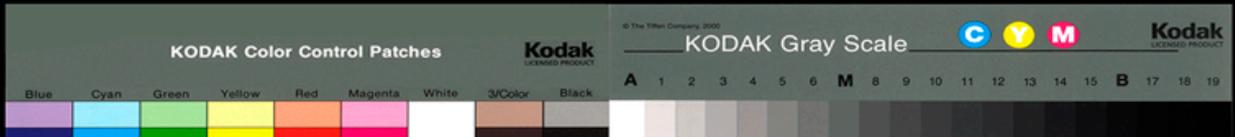
Front



Base



Sample No.:	R22
Depth:	3865.40 m
Permeability:	0.48 mD
Porosity:	7.7 %





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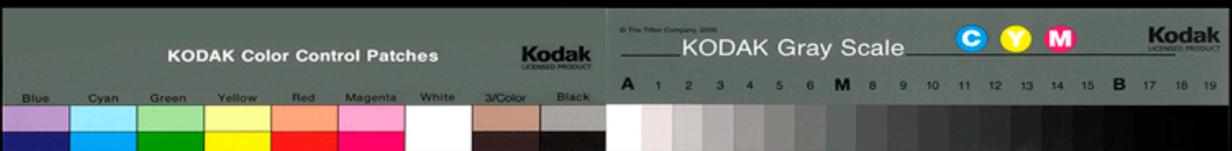
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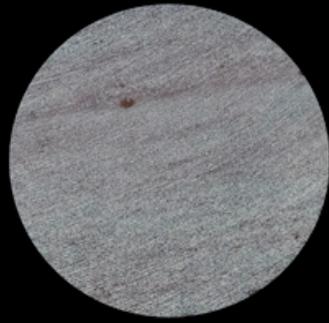


Base



Sample No.:	S9
Depth:	3865.52 m
Permeability:	0.46 mD
Porosity:	8.8 %

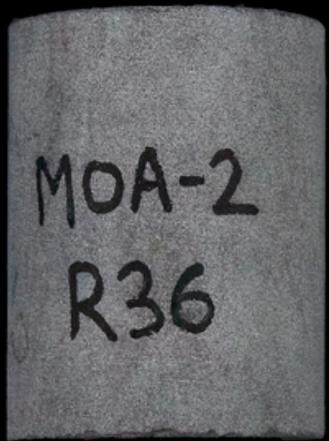




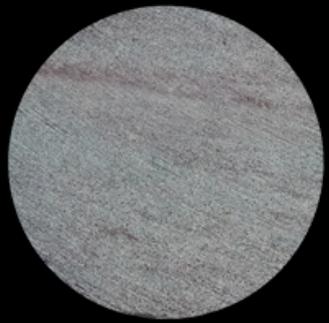
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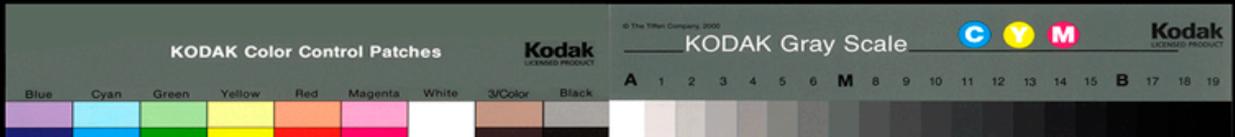
Front



Base



Sample No.:	R36
Depth:	3875.60 m
Permeability:	0.023 mD
Porosity:	2.2 %

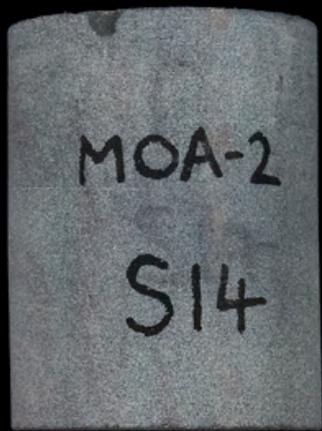




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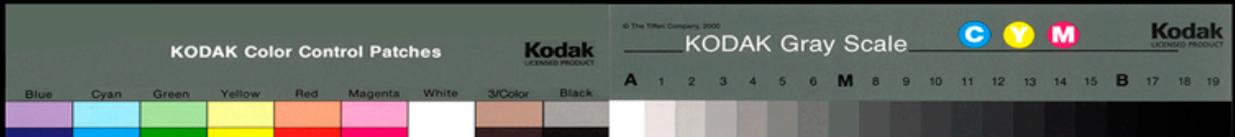
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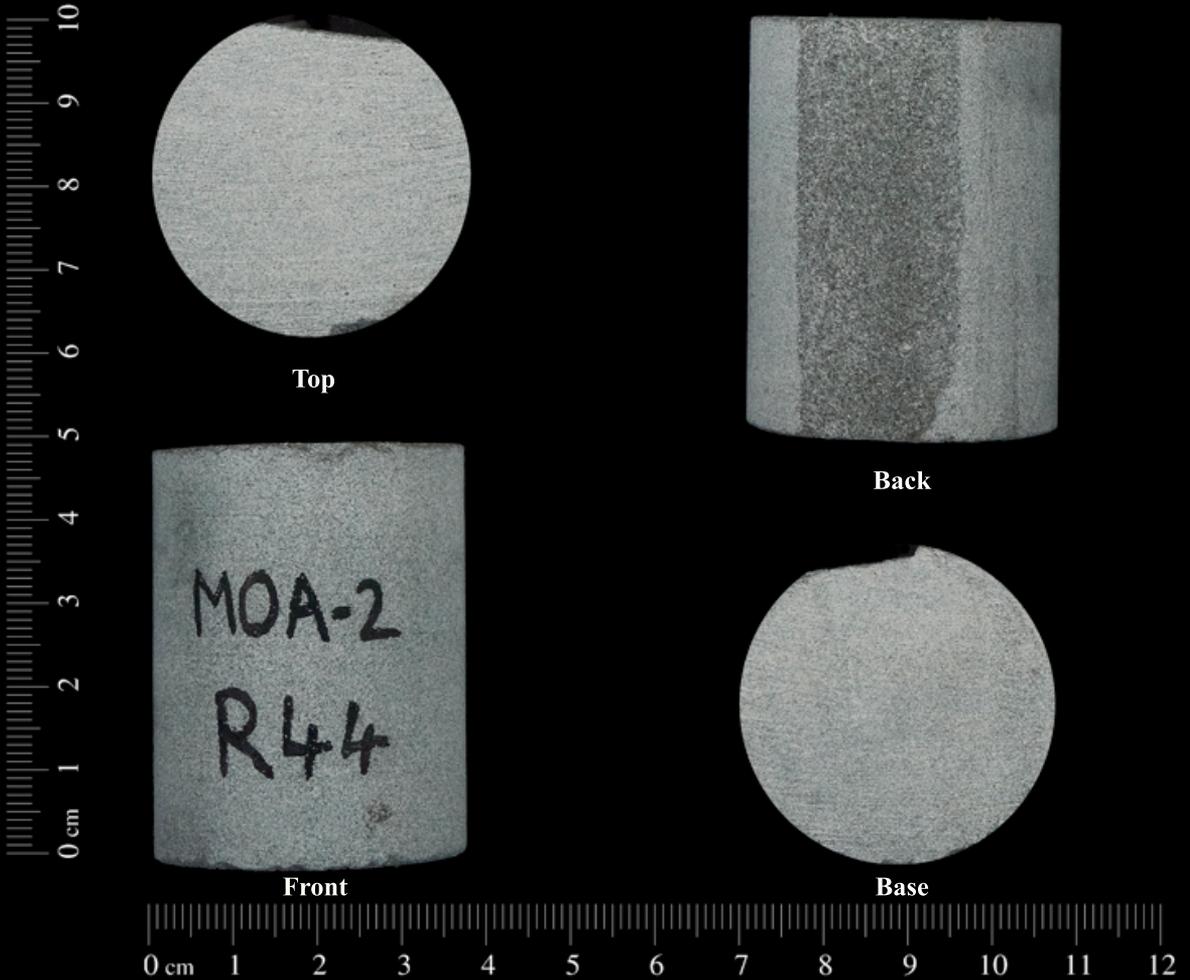


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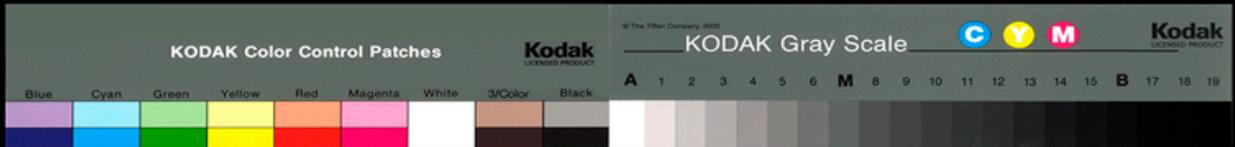


Sample No.:	S14
Depth:	3875.65 m
Permeability:	0.0052 mD
Porosity:	1.6 %





Sample No.:	R44
Depth:	3883.31 m
Permeability:	0.048 mD
Porosity:	4.2 %





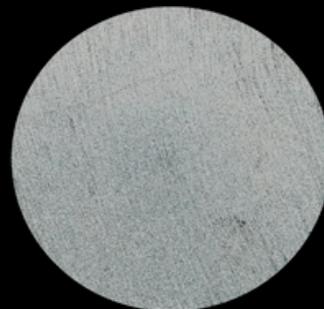
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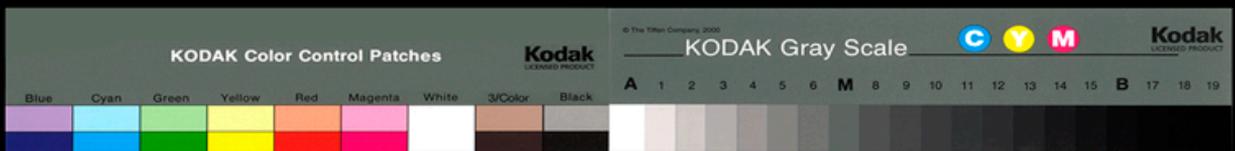
Front



Base



Sample No.:	S17
Depth:	3883.36 m
Permeability:	0.15 mD
Porosity:	4.5 %





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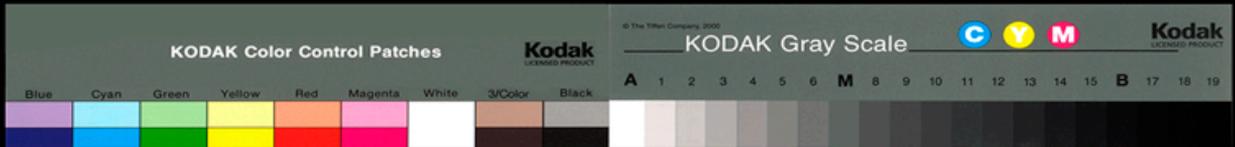
Front



Base



Sample No.:	R46
Depth:	3884.46 m
Permeability:	0.29 mD
Porosity:	9.0 %

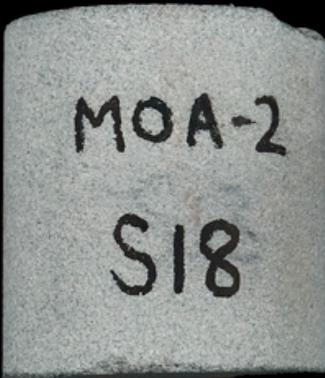




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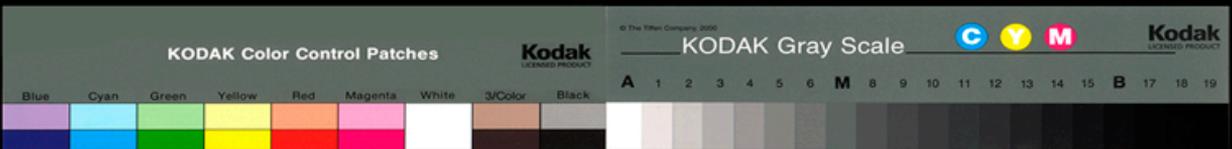
Front



Base



Sample No.:	S18
Depth:	3884.52 m
Permeability:	0.23 mD
Porosity:	9.2 %





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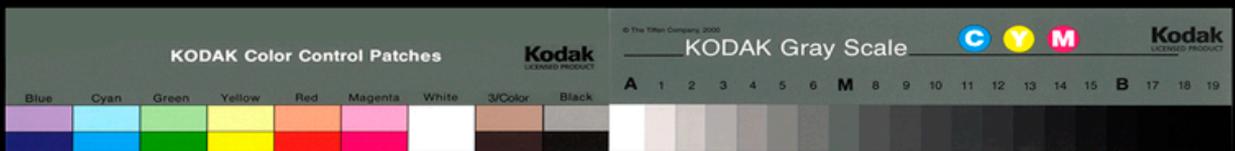
Front



Base



Sample No.:	R48
Depth:	3885.45 m
Permeability:	0.16 mD
Porosity:	8.4 %

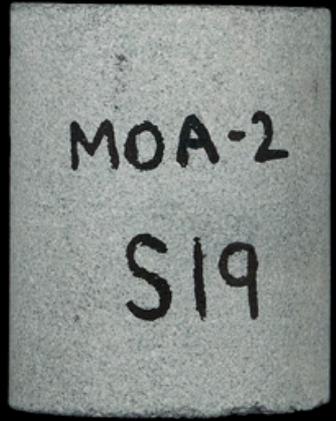




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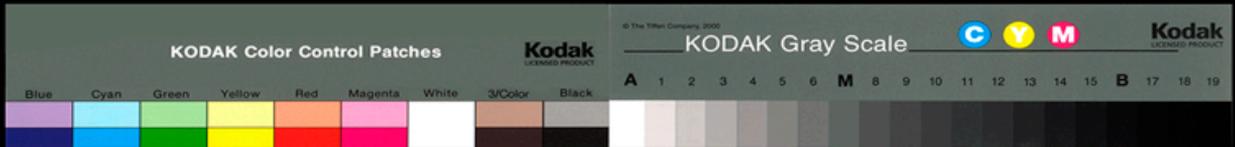
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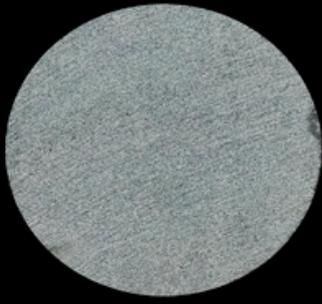


Base



Sample No.:	S19
Depth:	3885.50 m
Permeability:	0.16 mD
Porosity:	8.1 %





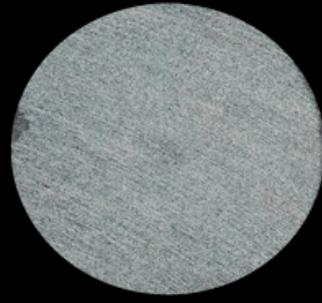
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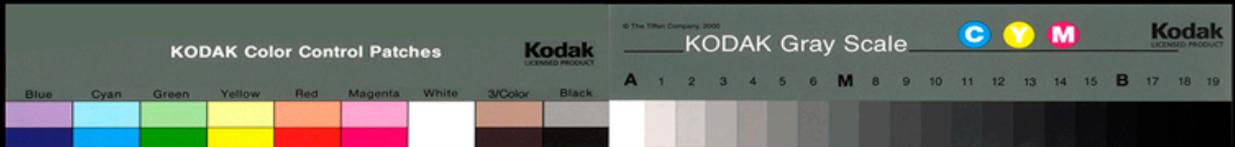
Front



Base



Sample No.:	R61
Depth:	3896.50 m
Permeability:	0.042 mD
Porosity:	2.7 %

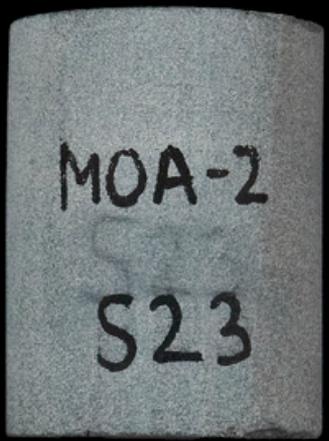




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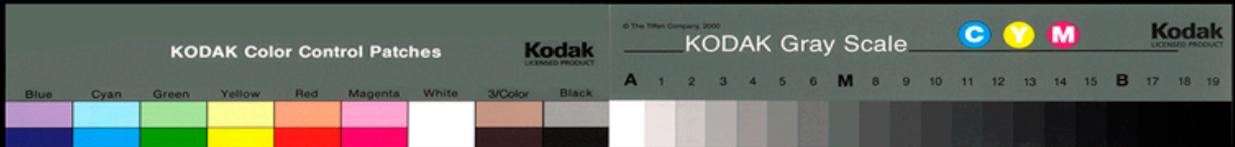
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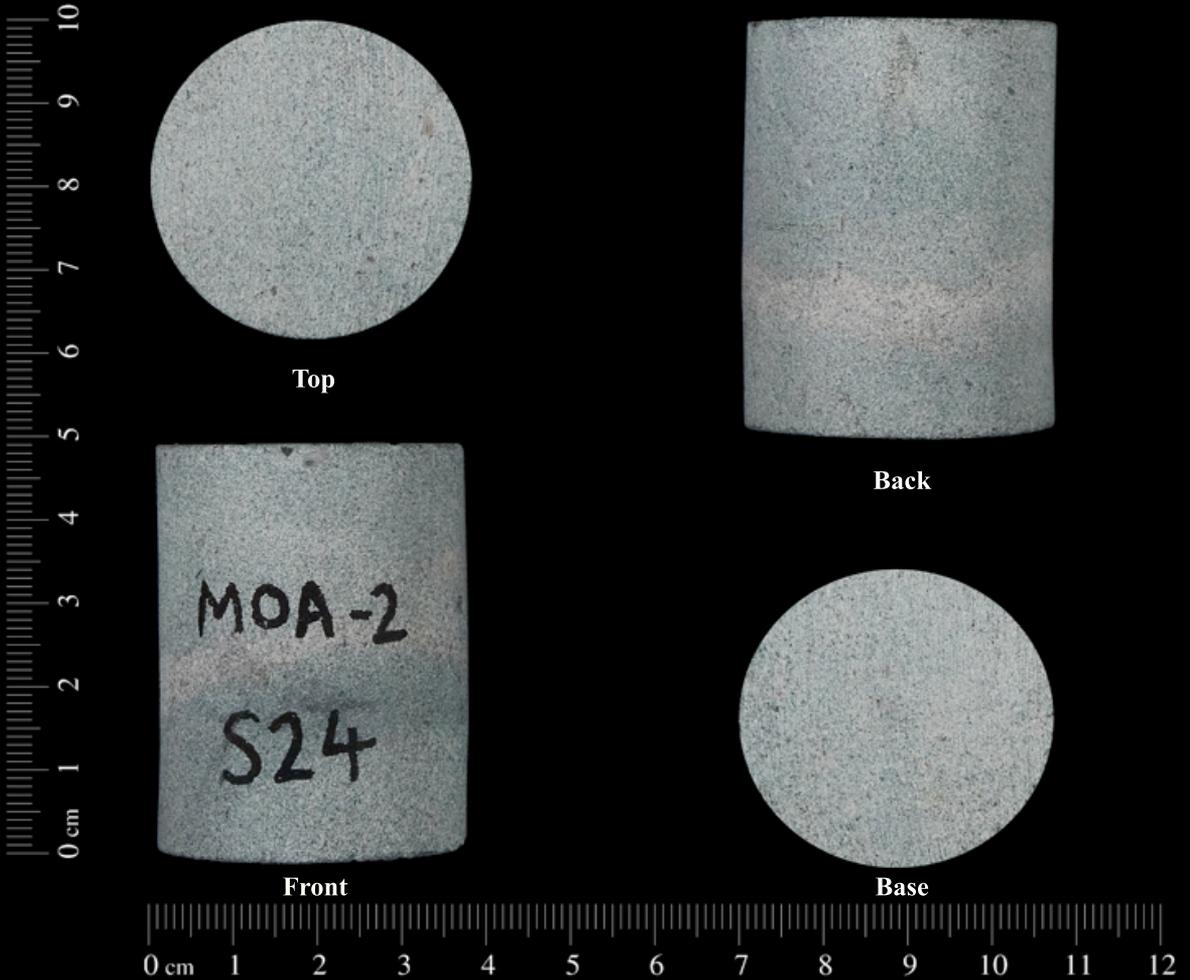


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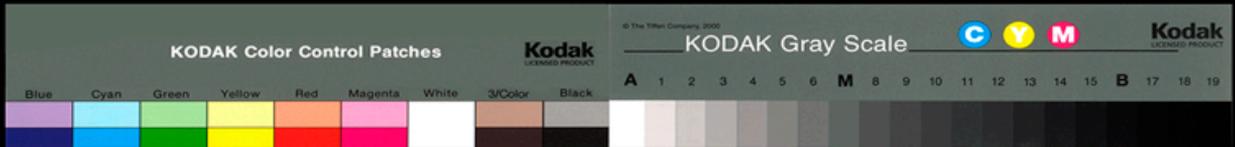


Sample No.:	S23
Depth:	3896.55 m
Permeability:	0.013 mD
Porosity:	2.3 %





Sample No.:	S24
Depth:	3897.65 m
Permeability:	0.0037 mD
Porosity:	3.4 %

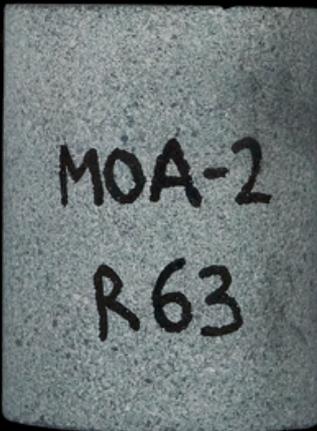




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Front



Base



Sample No.:	R63
Depth:	3897.70 m
Permeability:	0.0031 mD
Porosity:	3.5 %

