

## **EXTENDED GAS ANALYSIS**

V0003414	- 5				28082					52136-2014-9012			
CONTAINER IDENTITY			METER ID	METER ID		WELL LICENSE NUMBER				LABORATORY FILE NUMBER			
		Black Swan Energy					6						
202 5 50	C/04 C 1/00	DI=	OPERA		C 1					PAGE			
ZUZ D-58-	-G/94-G-1/00 LOCATION (UWI)	RISC	k Swan HZ Be	WELL NAME	·U-1			KB EI	EV (m)	GR EL	.EV (m)		
Beg			Montne	еу В	Core Lab - F				. , , , , , , , , , , , , , , , , , , ,				
	FIELD OR AREA			POOL OR ZO	DNE	SAMP	SAMPLER						
TEST TYPE AN	ND NO.				TEST RECOVERY								
Meter Rur	1												
		POINT OF SAMPLE						SAMPLE POIN	SAMPLE POINT ID				
		PUMPING		FLOWING		GAS LI	FT_	SWAE	3				
		WATER		m³/d	OIL		m³/d	GAS			m³/		
TEST INTER	VAL or PERFS (meters)		760	- 15 - 75	57 - 22 -								
SEPARATO	R RESERVOIR	OTHER		@ 15 °C 75	CONTAINER	<u>-</u>	SEPARATOR	_	ОТІ	HER	_		
at 12:0	O bre	ssures, kPa (g	gauge)	SAMPLED V	WHEN RECEIVED		— Те	emperature	es, °C−		_		
2014 01		2014 01 15	2014	01 16	GL					@			
DATE SAMPL	ED (Y/M/D) DA	TE RECEIVED (Y/M/D		LYZED (Y/M/D)	ANALYST	_	AMT. AND TYPE	CUSHION	MUD	RESISTI			
	MOLE FRACTION	MOLE FRACTION AIR FREE	mL/m³		CALCULATED GRO			CALCULATE			JRE		
COMPONENT	AIR FREE AS RECEIVED	ACID GAS FREE	AIR FREE AS RECEIVED	47.70	MJ/m³ @ 15°C & 101.325 kPa (abs.)  47.87			kPa (abs.) @ 40 °C 59.2					
H <sub>2</sub>	Trace	Trace		MOISTURE FREE MOISTURE & ACID GAS FREE  CALCULATED TOTAL SAMPLE PROPERTIES (A  MOISTURE FREE AS SAI				PENTANES PLUS			4		
He	0.0001	0.0001		0.897 DENSIT	kg/m³		732	DEI ATIVE	21.2	AD MAS	_		
$N_2$	0.0026	0.0026		CALCULATED PSEUDOCRITICAL				RELATIVE MOLECULAR MASS PROPERTIES					
CO <sub>2</sub>	0.0037	0.0000		4564.7	AS SAMPLED kPa (abs)	221.0	к 45	ACID GAS I 54.4 kPa (abs		20.7	к		
H <sub>2</sub> S	Trace	0.0000		pPe	c	рТс		pPc		рТс			
					TIES @ 15°C & 101		MOLE FRACTION 0.0000020	LOCATION Field		ETHOD			
C <sub>1</sub>	0.8159	0.8189		719.8 DENSITY	kg/m³ 105.4 MOLECULAR			PROGEN SULPHI		astec	-		
$C_2$	0.0965	0.0969	342.9						,				
C <sub>3</sub>	0.0373	0.0375	137.1										
iC <sub>4</sub>	0.0073	0.0073	31.9										
C <sub>4</sub>	0.0114	0.0115	48.0	REMARKS:									
iC <sub>5</sub>	0.0041	0.0041	20.0	H2S determined in the field by Gastec = 2 ppm									
C <sub>5</sub>	0.0045	0.0045	21.8										
C <sub>6</sub>	0.0060	0.0060	32.3										
C <sub>7</sub>	0.0057	0.0057	32.7										
C <sub>8</sub>	0.0036	0.0036	24.2										
C <sub>9</sub>	0.0010	0.0010	6.6										
C <sub>10+</sub>	0.0003	0.0003	2.4										
Total	1.0000	1.0000	699.9										