EXTENDED GAS ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
V0002272 - 1		7204	52136-2010-0419

OPERATOR	PAGE
Molopo Canada	1

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
100/03-19-001-27W1/02	Molopo Pierson HZ 3-19-1-27	458.99	453.64

FIELD OR AREA	POOL OR ZONE	SAMPLER
Pierson	Spearfish	Select Production

TEST TYPE AND NO.	TEST RECOVERY

Meter Run

POINT OF SAMPLE | SAMPLE POINT ID

PUMPING | FLOWING | GAS LIFT | SWAB

WATER 18 m³/d | OIL 27 m³/d | GAS 630 m³/d

TEST INTERVAL or PERFS (meters)

Pressures, kPa (gauge)

SEPARATOR	RESERVOIR	OTHER	CONTAINER WHEN SAMPLED	CONTAINER WHEN RECEIVED
70			@ °C	87 @ 22 °C

Temperatures, °C

SEPARATOR	OTHER
-1	

at 08:00 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY
2010 02 05	2010 03 22	2010 03 22	MF		@ °C

COMPONENT	MOLE FRACTION AIR FREE AS RECEIVED	MOLE FRACTION AIR FREE ACID GAS FREE	mL/m³ AIR FREE AS RECEIVED
H_2	Trace	Trace	
He	Trace	Trace	
N_2	0.0604	0.0606	
CO_2	0.0024	0.0000	
H_2S	0.0005	0.0000	
C_1	0.4430	0.4444	
C_2	0.1893	0.1898	672.7
C_3	0.1888	0.1893	693.8
iC_4	0.0246	0.0247	107.4
C_4	0.0580	0.0582	244.0
iC_5	0.0106	0.0106	51.7
C_5	0.0108	0.0108	52.3
C_6	0.0066	0.0066	34.9
C_{7+}	0.0050	0.0050	27.6
Total	1.0000	1.0000	1,884.4

CALCULATED GROSS HEATING VALUE MJ/m³ @ 15°C & 101.325 kPa (abs.)		CALCULATED VAPOR PRESSURE kPa (abs.) @ 40 °C
62.70	62.86	97.8
MOISTURE FREE	MOISTURE & ACID GAS FREE	PENTANES PLUS

CALCULATED TOTAL SAMPLE PROPERTIES (AIR=1) @ 15°C & 101.325 kPa
MOISTURE FREE AS SAMPLED

DENSITY	RELATIVE DENSITY	RELATIVE MOLECULAR MASS
1.282 kg/m³	1.047	30.3

CALCULATED PSEUDOCRITICAL PROPERTIES

AS SAMPLED pPc	AS SAMPLED pTc	ACID GAS FREE pPc	ACID GAS FREE pTc
4408.7 kPa (abs)	271.3 K	4399.3 kPa (abs)	271.2 K

C_{7+} PROPERTIES @ 15°C & 101.325 kPa DENSITY	MOLECULAR WEIGHT	MOLE FRACTION HYDROGEN SULPHIDE	LOCATION	METHOD
731.4 kg/m³	94.8	0.0005000	Field	Gastec

REMARKS:

H2S determined in the field by Gastec = 0.05%

NOTE: THE GROSS HEATING VALUE HAS BEEN CALCULATED IN ACCORDANCE TO AGA REPORT #5 AND ALL PROPERTIES HAVE BEEN CALCULATED UTILIZING GPA 2145 - 09 PHYSICAL CONSTANTS AND BOILING POINT GROUPING.

EXTENDED GAS ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
V0008577 - 1		7184	52134-2010-0838

OPERATOR	PAGE
Molopo Canada	1

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
100/08-27-001-28W1/00	Molopo Pierson Hz 8-27-1-28	461.80	457.40

FIELD OR AREA	POOL OR ZONE	SAMPLER
Pierson	Spearfish	Pure Energy Services

TEST TYPE AND NO.	TEST RECOVERY

Meter Run

POINT OF SAMPLE | SAMPLE POINT ID

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS 292 m³/d

TEST INTERVAL or PERFS (meters)

Pressures, kPa (gauge)

SEPARATOR	RESERVOIR	OTHER	CONTAINER WHEN SAMPLED	CONTAINER WHEN RECEIVED
		18	@ °C	30 @ 22 °C

Temperatures, °C

SEPARATOR	OTHER
	3.0

05:50 Hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY
2010 03 08	2010 03 10	2010 03 12	TUN		@ °C

COMPONENT	MOLE FRACTION AIR FREE AS RECEIVED	MOLE FRACTION AIR FREE ACID GAS FREE	mL/m³ AIR FREE AS RECEIVED
H_2	0.0001	0.0001	
He	0.0000	0.0000	
N_2	0.0567	0.0567	
CO_2	0.0009	0.0000	
H_2S	0.0001	0.0000	
C_1	0.3722	0.3725	
C_2	0.2247	0.2249	798.5
C_3	0.2058	0.2060	756.3
iC_4	0.0269	0.0270	117.5
C_4	0.0713	0.0714	300.0
iC_5	0.0137	0.0137	66.9
C_5	0.0144	0.0145	69.7
C_6	0.0073	0.0073	38.4
C_{7+}	0.0059	0.0059	32.6
Total	1.0000	1.0000	2,179.9

CALCULATED GROSS HEATING VALUE MJ/m³ @ 15°C & 101.325 kPa (abs.)

MOISTURE FREE	MOISTURE & ACID GAS FREE
67.23	67.31

CALCULATED VAPOR PRESSURE kPa (abs.) @ 40 °C

PENTANES PLUS
100.6

CALCULATED TOTAL SAMPLE PROPERTIES (AIR=1) @ 15°C & 101.325 kPa
MOISTURE FREE AS SAMPLED

DENSITY	RELATIVE DENSITY	RELATIVE MOLECULAR MASS
1.368 kg/m³	1.117	32.3

CALCULATED PSEUDOCRITICAL PROPERTIES

AS SAMPLED pPc	AS SAMPLED pTc	ACID GAS FREE pPc	ACID GAS FREE pTc
4387.5 kPa (abs)	284.4 K	4384.3 kPa (abs)	284.4 K

C_{7+} PROPERTIES @ 15°C & 101.325 kPa DENSITY	MOLECULAR WEIGHT
739.0 kg/m³	95.9

MOLE FRACTION	LOCATION	METHOD
0.0001000	Field	Other

HYDROGEN SULPHIDE

REMARKS:

H2S determined in the field = 100 ppm

NOTE: THE GROSS HEATING VALUE HAS BEEN CALCULATED IN ACCORDANCE TO AGA REPORT #5 AND ALL PROPERTIES HAVE BEEN CALCULATED UTILIZING GPA 2145 - 09 PHYSICAL CONSTANTS AND BOILING POINT GROUPING.

EXTENDED GAS ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
V0011587 - 1		7190	52134-2010-0774

OPERATOR	PAGE
Molopo Canada	1

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
100/09-27-001-28W1/00	Molopo Pierson Hz 9-27-1-28	464.55	459.40

FIELD OR AREA	POOL OR ZONE	SAMPLER
Pierson	Spearfish	Lonkar Well Testing

TEST TYPE AND NO.: -

TEST RECOVERY:

Meter Run

POINT OF SAMPLE: PUMPING | FLOWING | GAS LIFT | SWAB

SAMPLE POINT ID:

WATER m³/d | OIL m³/d | GAS m³/d

TEST INTERVAL or PERFS (meters)

Pressures, kPa (gauge)

SEPARATOR	RESERVOIR	OTHER	CONTAINER WHEN SAMPLED	CONTAINER WHEN RECEIVED
		1	@ °C	20 @ 22 °C

Temperatures, °C

SEPARATOR	OTHER
	1.0

16:00 Hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY
2010 03 01	2010 03 04	2010 03 09	TUN		@ °C

COMPONENT	MOLE FRACTION AIR FREE AS RECEIVED	MOLE FRACTION AIR FREE ACID GAS FREE	mL/m³ AIR FREE AS RECEIVED
H_2	0.0004	0.0004	
He	Trace	Trace	
N_2	0.0128	0.0128	
CO_2	0.0006	0.0000	
H_2S	0.0000	0.0000	
C_1	0.0716	0.0716	
C_2	0.1265	0.1266	449.5
C_3	0.3944	0.3947	1,449.3
iC_4	0.0710	0.0710	310.0
C_4	0.2074	0.2076	872.6
iC_5	0.0427	0.0427	208.4
C_5	0.0453	0.0453	219.2
C_6	0.0187	0.0187	97.6
C_{7+}	0.0086	0.0086	45.4
Total	1.0000	1.0000	3,652.0

CALCULATED GROSS HEATING VALUE MJ/m³ @ 15°C & 101.325 kPa (abs.)

MOISTURE FREE	MOISTURE & ACID GAS FREE
101.21	101.26

CALCULATED VAPOR PRESSURE kPa (abs.) @ 40 °C

PENTANES PLUS
110.2

CALCULATED TOTAL SAMPLE PROPERTIES (AIR=1) @ 15°C & 101.325 kPa
MOISTURE FREE AS SAMPLED

DENSITY	RELATIVE DENSITY	RELATIVE MOLECULAR MASS
2.014 kg/m³	1.644	47.6

CALCULATED PSEUDOCRITICAL PROPERTIES

AS SAMPLED pPc	AS SAMPLED pTc	ACID GAS FREE pPc	ACID GAS FREE pTc
4103.2 kPa (abs)	372.2 K	4101.3 kPa (abs)	372.3 K

C_{7+} PROPERTIES @ 15°C & 101.325 kPa DENSITY	MOLECULAR WEIGHT
744.0 kg/m³	92.2

MOLE FRACTION HYDROGEN SULPHIDE	LOCATION	METHOD
0.0000000	Laboratory	Chromatograph

REMARKS:

NOTE: THE GROSS HEATING VALUE HAS BEEN CALCULATED IN ACCORDANCE TO AGA REPORT #5 AND ALL PROPERTIES HAVE BEEN CALCULATED UTILIZING GPA 2145 - 09 PHYSICAL CONSTANTS AND BOILING POINT GROUPING.

EXTENDED GAS ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
V0012287 - 1		7186	52134-2010-0969

OPERATOR	PAGE
Molopo Canada	2

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
100/12-28-001-28W1/00	Molopo Pierson Hz 5-33-1-28	465.35	460.25

FIELD OR AREA	POOL OR ZONE	SAMPLER
Pierson	Spearfish	Pure Energy Services

TEST TYPE AND NO.:

TEST RECOVERY:

POINT OF SAMPLE: Meter Run

SAMPLE POINT ID:

PUMPING | FLOWING | GAS LIFT | SWAB

WATER 13.4 m³/d | OIL 3.4 m³/d | GAS 2101 m³/d

TEST INTERVAL or PERFS (meters)

Pressures, kPa (gauge)

SEPARATOR	RESERVOIR	OTHER	CONTAINER WHEN SAMPLED	CONTAINER WHEN RECEIVED
		17	@ °C	50 @ 22 °C

Temperatures, °C

SEPARATOR	OTHER
	12.0

12:00 Hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY
2010 03 04	2010 03 18	2010 03 22	TUN		@ °C

COMPONENT	MOLE FRACTION AIR FREE AS RECEIVED	MOLE FRACTION AIR FREE ACID GAS FREE	mL/m³ AIR FREE AS RECEIVED
H_2	0.0000	0.0000	
He	0.0000	0.0000	
N_2	0.9366	0.9374	
CO_2	0.0010	0.0000	
H_2S	Trace	0.0000	
C_1	0.0105	0.0105	
C_2	0.0079	0.0079	28.1
C_3	0.0131	0.0132	48.1
iC_4	0.0030	0.0030	13.1
C_4	0.0094	0.0094	39.5
iC_5	0.0036	0.0036	17.6
C_5	0.0046	0.0046	22.3
C_6	0.0046	0.0047	24.5
C_{7+}	0.0057	0.0057	32.0
Total	1.0000	1.0000	225.2

CALCULATED GROSS HEATING VALUE MJ/m³ @ 15°C & 101.325 kPa (abs.)

MOISTURE FREE	MOISTURE & ACID GAS FREE
6.79	6.82

CALCULATED VAPOR PRESSURE kPa (abs.) @ 40 °C

PENTANES PLUS
73.5

CALCULATED TOTAL SAMPLE PROPERTIES (AIR=1) @ 15°C & 101.325 kPa
MOISTURE FREE AS SAMPLED

DENSITY	RELATIVE DENSITY	RELATIVE MOLECULAR MASS
1.248 kg/m³	1.019	29.5

CALCULATED PSEUDOCRITICAL PROPERTIES

AS SAMPLED pPc	AS SAMPLED pTc	ACID GAS FREE pPc	ACID GAS FREE pTc
3437.8 kPa (abs)	142.3 K	3433.8 kPa (abs)	142.2 K

C_{7+} PROPERTIES @ 15°C & 101.325 kPa DENSITY	MOLECULAR WEIGHT	MOLE FRACTION HYDROGEN SULPHIDE	LOCATION	METHOD
736.8 kg/m³	97.1	0.0000050	Field	Other

REMARKS:

H2S determined in the field = 5 ppm

NOTE: THE GROSS HEATING VALUE HAS BEEN CALCULATED IN ACCORDANCE TO AGA REPORT #5 AND ALL PROPERTIES HAVE BEEN CALCULATED UTILIZING GPA 2145 - 09 PHYSICAL CONSTANTS AND BOILING POINT GROUPING.

EXTENDED GAS ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
V0009650 - 1		7247	52134-2010-1076

OPERATOR	PAGE
Molopo Energy Canada Ltd.	1

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
100/13-27-001-28W1/00	Molopo Pierson Hz 13-27-1-28	460.46	455.01

FIELD OR AREA	POOL OR ZONE	SAMPLER
Pierson	Spearfish	Pure Energy Services

TEST TYPE AND NO.

TEST RECOVERY

Meter Run

POINT OF SAMPLE

SAMPLE POINT ID

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS 262 m³/d

TEST INTERVAL or PERFS (meters)

Pressures, kPa (gauge)

SEPARATOR	RESERVOIR	OTHER	CONTAINER WHEN SAMPLED	CONTAINER WHEN RECEIVED
		45	@ °C	60 @ 22 °C

03:00 Hrs

Temperatures, °C

SEPARATOR	OTHER
	2.0

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY
2010 03 23	2010 03 24	2010 03 29	TUN		@ °C

COMPONENT	MOLE FRACTION AIR FREE AS RECEIVED	MOLE FRACTION AIR FREE ACID GAS FREE	mL/m³ AIR FREE AS RECEIVED
H_2	0.0001	0.0001	
He	0.0001	0.0001	
N_2	0.0659	0.0660	
CO_2	0.0016	0.0000	
H_2S	0.0002	0.0000	
C_1	0.3856	0.3864	
C_2	0.2196	0.2199	780.4
C_3	0.2040	0.2044	749.6
iC_4	0.0264	0.0264	115.3
C_4	0.0656	0.0658	276.0
iC_5	0.0112	0.0112	54.7
C_5	0.0110	0.0110	53.2
C_6	0.0051	0.0051	26.8
C_{7+}	0.0036	0.0036	19.4
Total	1.0000	1.0000	2,075.4

CALCULATED GROSS HEATING VALUE MJ/m³ @ 15°C & 101.325 kPa (abs.)		CALCULATED VAPOR PRESSURE kPa (abs.) @ 40 °C
64.72	64.83	105.4
MOISTURE FREE	MOISTURE & ACID GAS FREE	PENTANES PLUS

CALCULATED TOTAL SAMPLE PROPERTIES (AIR=1) @ 15°C & 101.325 kPa
MOISTURE FREE AS SAMPLED

DENSITY	RELATIVE DENSITY	RELATIVE MOLECULAR MASS
1.329 kg/m³	1.085	31.4

CALCULATED PSEUDOCRITICAL PROPERTIES

AS SAMPLED		ACID GAS FREE	
4396.5 kPa (abs)	278.4 K	4390.8 kPa (abs)	278.3 K
pPc	pTc	pPc	pTc

C_{7+} PROPERTIES @ 15°C & 101.325 kPa		MOLE FRACTION	LOCATION	METHOD
744.0 kg/m³	94.3	0.0001500	Field	Other
DENSITY	MOLECULAR WEIGHT	HYDROGEN SULPHIDE		

REMARKS:

H2S determined in the field = 150 ppm

NOTE: THE GROSS HEATING VALUE HAS BEEN CALCULATED IN ACCORDANCE TO AGA REPORT #5 AND ALL PROPERTIES HAVE BEEN CALCULATED UTILIZING GPA 2145 - 09 PHYSICAL CONSTANTS AND BOILING POINT GROUPING.

AGAT® Laboratories

GAS ANALYSIS

Container Identification
17842

Operator Name	Laboratory Number
MOLOPO ENERGY CANADA LTD.	10GS410162D

Unique Well Identifier	Well Name
05-28-001-28W1	PIERSON 5-28-1-28

Field or Area	Pool or Zone	Sampler's Company
PIERSON	NOT AVAILABLE	AGAT/ESTEVAN

Well License	Elevation	Test Type	Test No.	Name of Sampler
	KB m GRD m			

Test Interval or Perfs mKB	Sampling Point
	WELLHEAD CASING

	Separator	Reservoir	Source	Sampled	Received
Pressure (kPa)			60	60	50
Temperature			14	14	21

Date Sampled	Date Received	Date Analyzed	Date Reported	Entered By	Certified By
Jun 07, 2010	Jun 10, 2010	Jun 17, 2010	Jun 17, 2010	Gerry Ecker	Gerry Ecker

Other Information

** Results relate only to the items tested*

Note: Sampling Point, Unique Well Identifier and/or Pool or Zone information was unavailable at time of reporting. This information is integral to AGAT's WebFLUIDs, a comparison, history and trending analysis system.

COMP	MOLE FRACTION		PETROLEUM LIQUID
	AIR FREE AS RECEIVED	AIR FREE ACID GAS FREE	mL / m³
H2	0.0001	0.0001	
He	0.0002	0.0002	
N2	0.0577	0.0578	
CO2	0.0009	0.0000	
H2S	0.0000	0.0000	
C1	0.4104	0.4108	
C2	0.2556	0.2558	
C3	0.1830	0.1832	672.5
IC4	0.0217	0.0217	94.8
NC4	0.0495	0.0495	208.3
IC5	0.0081	0.0081	39.5
NC5	0.0075	0.0075	36.3
C6	0.0028	0.0028	15.4
C7+	0.0025	0.0025	16.3
Total	1.0000	1.0000	1083.1

Exceeds normal limits:
N2

GROSS HEATING VALUE MJ/m³
15° C AND 101.325 kPa

Air Free As Received	Moisture & Acid Gas Free	C7+, Air Free As Received
62.00	62.05	0.55

RELATIVE DENSITY (CALCULATED) **DENSITY**

Moisture Free	Moisture & Acid Gas Free	C7+, Moisture Free	C7+, Portion Whole Density	C7+ Density (kg/m3)	Total Sample Density(kg/m3)
1.028	1.027	3.731	0.009	698.8	1.259

PSEUDO CRITICAL PROPERTIES (CALCULATED)

As Sampled		Acid Gas Free	
pPc (abs) kPa	pTc K	pPc (abs) kPa	pTc K
4447.7	271.5	4445.1	271.4

RELATIVE MOLECULAR MASS

Total Gas	C_7+
29.8	108.1

VAPOUR PRESSURE (Pentanes +)

98.68 kPa

H_2S g/m³

0.00

AGAT® Laboratories

GAS ANALYSIS

Container Identification
17842

Operator Name	Laboratory Number
MOLOPO ENERGY CANADA LTD.	10GS410162D

Unique Well Identifier	Well Name
05-28-001-28W1	PIERSON 5-28-1-28

Field or Area	Pool or Zone	Sampler's Company
PIERSON	NOT AVAILABLE	AGAT/ESTEVAN

Well License	Elevation				Test Type	Test No.	Name of Sampler
	KB m		GRD m				

Test Interval or Perfs mKB		Sampling Point
		WELLHEAD CASING

	Separator	Reservoir	Source	Sampled	Received
Pressure (kPa)			60	60	50
Temperature			14	14	21

Date Sampled	Date Received	Date Analyzed	Date Reported	Entered By	Certified By
Jun 07, 2010	Jun 10, 2010	Jun 17, 2010	Jun 17, 2010	Gerry Ecker	Gerry Ecker

Other Information

* Results relate only to the items tested

Note: Sampling Point, Unique Well Identifier and/or Pool or Zone information was unavailable at time of reporting. This information is integral to AGAT's WebFLUIDs, a comparison, history and trending analysis system.

COMP	MOLE FRACTION		PETROLEUM LIQUID
	AIR FREE AS RECEIVED	AIR FREE ACID GAS FREE	mL / m³
H2	0.0001	0.0001	
He	0.0002	0.0002	
N2	0.0577	0.0578	
CO2	0.0009	0.0000	
H2S	0.0000	0.0000	
C1	0.4104	0.4108	
C2	0.2556	0.2558	
C3	0.1830	0.1832	672.5
IC4	0.0217	0.0217	94.8
NC4	0.0495	0.0495	208.3
IC5	0.0081	0.0081	39.5
NC5	0.0075	0.0075	36.3
C6	0.0028	0.0028	15.4
C7+	0.0025	0.0025	16.3
Total	1.0000	1.0000	1083.1

Exceeds normal limits:
N2

GROSS HEATING VALUE MJ/m³
15º C AND 101.325 kPa

Air Free As Received	Moisture & Acid Gas Free	C7+, Air Free As Received
62.00	62.05	0.55

RELATIVE DENSITY (CALCULATED) DENSITY

Moisture Free	Moisture & Acid Gas Free	C7+, Moisture Free	C7+, Portion Whole Density	C7+ Density (kg/m3)	Total Sample Density(kg/m3)
1.028	1.027	3.731	0.009	698.8	1.259

PSEUDO CRITICAL PROPERTIES (CALCULATED)

As Sampled		Acid Gas Free	
pPc (abs) kPa	pTc K	pPc (abs) kPa	pTc K
4447.7	271.5	4445.1	271.4

RELATIVE MOLECULAR MASS

Total Gas	C_7+
29.8	108.1

VAPOUR PRESSURE (Pentanes +)	H_2S g/m³
98.68 kPa	0.00

AGAT® Laboratories

GAS ANALYSIS

Container Identification
15969

Operator Name	Laboratory Number
MOLOPO ENERGY CANADA LTD.	10GS410162C

Unique Well Identifier	Well Name
01-07-002-28W1	PIERSON 1-7-2-28

Field or Area	Pool or Zone	Sampler's Company
PIERSON	NOT AVAILABLE	AGAT/ESTEVAN

Well License	Elevation				Test Type	Test No.	Name of Sampler
	KB m		GRD m				

Test Interval or Perfs mKB		Sampling Point
		WELLHEAD CASING

	Separator	Reservoir	Source	Sampled	Received
Pressure (kPa)			20	20	1
Temperature			15	15	21

Date Sampled	Date Received	Date Analyzed	Date Reported	Entered By	Certified By
Jun 07, 2010	Jun 10, 2010	Jun 17, 2010	Jun 17, 2010	Gerry Ecker	Gerry Ecker

Other Information

* Results relate only to the items tested

Note: Sampling Point, Unique Well Identifier and/or Pool or Zone information was unavailable at time of reporting. This information is integral to AGAT's WebFLUIDs, a comparison, history and trending analysis system.

COMP	MOLE FRACTION		PETROLEUM LIQUID
	AIR FREE AS RECEIVED	AIR FREE ACID GAS FREE	mL / m³
H2	0.0003	0.0003	
He	0.0000	0.0000	
N2	0.0134	0.0134	
CO2	0.0005	0.0000	
H2S	0.0000	0.0000	
C1	0.1367	0.1368	
C2	0.2445	0.2446	
C3	0.3988	0.3990	1465.5
IC4	0.0501	0.0501	218.8
NC4	0.1129	0.1130	475.0
IC5	0.0169	0.0169	82.5
NC5	0.0158	0.0158	76.5
C6	0.0058	0.0058	31.8
C7+	0.0043	0.0043	28.5
Total	1.0000	1.0000	2378.6

Exceeds normal limits:
IC5,NC5

GROSS HEATING VALUE MJ/m³
15º C AND 101.325 kPa

Air Free As Received	Moisture & Acid Gas Free	C7+, Air Free As Received
86.40	86.45	0.96

RELATIVE DENSITY (CALCULATED) DENSITY

Moisture Free	Moisture & Acid Gas Free	C7+, Moisture Free	C7+, Portion Whole Density	C7+ Density (kg/m3)	Total Sample Density(kg/m3)
1.392	1.392	3.775	0.016	700.5	1.705

PSEUDO CRITICAL PROPERTIES (CALCULATED)

As Sampled		Acid Gas Free	
pPc (abs) kPa	pTc K	pPc (abs) kPa	pTc K
4314.2	339.0	4312.7	339.1

RELATIVE MOLECULAR MASS

Total Gas	C_7+
40.3	109.3

VAPOUR PRESSURE (Pentanes +)

100.65 kPa

H_2S g/m³

0.00

AGAT® Laboratories

GAS ANALYSIS

Container Identification
30608

Operator Name	Laboratory Number
MOLOPO ENERGY CANADA LTD.	10GS410162J

Unique Well Identifier	Well Name
03-30-001-28W1	PIERSON 3-30-1-28

Field or Area	Pool or Zone	Sampler's Company
PIERSON	NOT AVAILABLE	AGAT/ESTEVAN

Well License	Elevation	Test Type	Test No.	Name of Sampler
	KB m GRD m			

Test Interval or Perfs mKB		Sampling Point
		WELLHEAD CASING

	Separator	Reservoir	Source	Sampled	Received
Pressure (kPa)			10	10	1
Temperature			14	14	21

Date Sampled	Date Received	Date Analyzed	Date Reported	Entered By	Certified By
Jun 07, 2010	Jun 10, 2010	Jun 17, 2010	Jun 17, 2010	Gerry Ecker	Gerry Ecker

Other Information

* Results relate only to the items tested

Note: Sampling Point, Unique Well Identifier and/or Pool or Zone information was unavailable at time of reporting. This information is integral to AGAT's WebFLUIDs, a comparison, history and trending analysis system.

COMP	MOLE FRACTION		PETROLEUM LIQUID
	AIR FREE AS RECEIVED	AIR FREE ACID GAS FREE	mL / m³
H2	0.0001	0.0001	
He	0.0001	0.0001	
N2	0.0471	0.0471	
CO2	0.0003	0.0000	
H2S	0.0000	0.0000	
C1	0.3336	0.3337	
C2	0.2087	0.2088	
C3	0.2646	0.2647	972.3
IC4	0.0329	0.0329	143.7
NC4	0.0763	0.0763	321.0
IC5	0.0127	0.0127	62.0
NC5	0.0127	0.0127	61.5
C6	0.0064	0.0064	35.1
C7+	0.0045	0.0045	29.1
Total	1.0000	1.0000	1624.7

Exceeds normal limits:
IC5,NC5

GROSS HEATING VALUE MJ/m³
15º C AND 101.325 kPa

Air Free As Received	Moisture & Acid Gas Free	C7+, Air Free As Received
71.00	71.02	0.98

RELATIVE DENSITY (CALCULATED) DENSITY

Moisture Free	Moisture & Acid Gas Free	C7+, Moisture Free	C7+, Portion Whole Density	C7+ Density (kg/m3)	Total Sample Density(kg/m3)
1.168	1.168	3.686	0.017	697.1	1.431

PSEUDO CRITICAL PROPERTIES (CALCULATED)

As Sampled		Acid Gas Free	
pPc (abs) kPa	pTc K	pPc (abs) kPa	pTc K
4364.1	294.6	4363.2	294.6

RELATIVE MOLECULAR MASS

Total Gas	C_7+
33.8	106.7

VAPOUR PRESSURE (Pentanes +)	H_2S g/m³
93.95 kPa	0.00

Molopo Energy Canada
Date: July 14, 2010
H2S Concentration in Gas

Assumptions: Assuming GOR of all wells are the same, highest GOR for field used at 46.7

Well	Oil Flowrate (bopd)	H2S conc. of Gas (ppm)
12-28-01-28	30	0
9-27-01-28	94	0
5-28-01-28	34	0
8-27-01-28	97	100
1-7-02-28	126	0
13-27-01-28	120	150
3-19-01-27	118	500
3-30-01-28	13	0

Prorated H2S Concentration for battery based upon these results is

137 ppm
0.000137 Mole Fraction
0.0137 %

For dispersion model use Spearfish 03-19-001-27 W1M,
correcting H2S to average and compensating with C1

EXTENDED GAS ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
V0002272 - 1		7204	52136-2010-0419

OPERATOR	PAGE
Molopo Canada	1

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
100/03-19-001-27W1/02	Molopo Pierson HZ 3-19-1-27	458.99	453.64

FIELD OR AREA	POOL OR ZONE	SAMPLER
Pierson	Spearfish	Select Production

TEST TYPE AND NO.	TEST RECOVERY
Meter Run	

POINT OF SAMPLE: PUMPING | FLOWING | GAS LIFT | SWAB

SAMPLE POINT ID:

WATER 18 m³/d | OIL 27 m³/d | GAS 630 m³/d

TEST INTERVAL or PERFS (meters): 70

Pressures, kPa (gauge) — at 08:00 hrs

SEPARATOR	RESERVOIR	OTHER	CONTAINER WHEN SAMPLED	CONTAINER WHEN RECEIVED
70			@ °C	87 @ 22 °C

Temperatures, °C

SEPARATOR	OTHER
-1	

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY
2010 02 05	2010 03 22	2010 03 22	MF		@ °C

COMPONENT	MOLE FRACTION AIR FREE AS RECEIVED	MOLE FRACTION AIR FREE ACID GAS FREE	mL/m³ AIR FREE AS RECEIVED
H_2	Trace	Trace	
He	Trace	Trace	
N_2	0.0604	0.0606	
CO_2	0.0024	0.0000	
H_2S	0.000137	0.0000	
C_1	0.443363	0.4444	
C_2	0.1893	0.1898	672.7
C_3	0.1888	0.1893	693.8
iC_4	0.0246	0.0247	107.4
C_4	0.0580	0.0582	244.0
iC_5	0.0106	0.0106	51.7
C_5	0.0108	0.0108	52.3
C_6	0.0066	0.0066	34.9
C_{7+}	0.0050	0.0050	27.6
Total	1.0000	1.0000	1,884.4

CALCULATED GROSS HEATING VALUE MJ/m³ @ 15°C & 101.325 kPa (abs.)		CALCULATED VAPOR PRESSURE kPa (abs.) @ 40 °C
62.70	62.86	97.8
MOISTURE FREE	MOISTURE & ACID GAS FREE	PENTANES PLUS

CALCULATED TOTAL SAMPLE PROPERTIES (AIR=1) @ 15°C & 101.325 kPa MOISTURE FREE AS SAMPLED

DENSITY	RELATIVE DENSITY	RELATIVE MOLECULAR MASS
1.282 kg/m³	1.047	30.3

CALCULATED PSEUDOCRITICAL PROPERTIES

AS SAMPLED pPc	AS SAMPLED pTc	ACID GAS FREE pPc	ACID GAS FREE pTc
4408.7 kPa (abs)	271.3 K	4399.3 kPa (abs)	271.2 K

C_{7+} PROPERTIES @ 15°C & 101.325 kPa DENSITY	C_{7+} PROPERTIES @ 15°C & 101.325 kPa MOLECULAR WEIGHT	HYDROGEN SULPHIDE MOLE FRACTION	HYDROGEN SULPHIDE LOCATION	HYDROGEN SULPHIDE METHOD
731.4 kg/m³	94.8	0.0005000	Field	Gastec

REMARKS:

H2S determined in the field by Gastec = 0.05%

CORRECTED TO 0.0137% TO MATCH FIELD AVERAGE. CHANGED C1 TO COMPENSATE FOR H_2S.

NOTE: THE GROSS HEATING VALUE HAS BEEN CALCULATED IN ACCORDANCE TO AGA REPORT #5 AND ALL PROPERTIES HAVE BEEN CALCULATED UTILIZING GPA 2145 - 09 PHYSICAL CONSTANTS AND BOILING POINT GROUPING.