

2013 HYDROCARBON RESERVES DATA USER'S GUIDE

January 22, 2015

Historically, the BC Oil and Gas Commission (Commission) published reserve extract files in fixed width text file format.

For the 2013 reserves extract, the Commission is moving to comma separated value format files (.csv). In addition to the change from fixed width text format to .csv, the 2013 reserve extract will no longer include several code table related files. Values from the omitted code table files are now included directly in each primary reserve file. For example, the Gas Reserve file previously contained a column for Area Code and the Area Name associated with that Area Code was contained in a separate code table file. For the 2013 reserve year both the Area Code and the Area Name are included in the Gas Reserve file.

Copies of this User Guide can be accessed through the Commission website via the Industry Zone Tab/Activity Levels/Annual Reserves Data.

This information is provided for the convenience of the public. The Commission does not assume liability for any errors or omissions.

If you have any questions regarding the data files, please do not hesitate to contact Information Systems at the Commission:

OGC.Systems@bcogc.ca

Table of Contents

1. Files

The BC Oil and Gas Commission supplies the following non confidential data:

Readme File	README_R.txt
Gas Reserve File	GAS_RESV.csv
Oil Reserves File	OIL_RESV.csv
Production File	PROD.csv
Gas Analysis*	$S_G_ANAL.csv$

^{*}The gas analysis data is based on the weighted averages of all the wells included in a pool.

2. File Formats

2.1. Gas Reserves File

Column	Title	Description	Units/Comments
A	AREA_CODE	Area Code	Number (4 character field left padded with zeros (e.g. 40 = 0040))
В	AREA_DESC	Area Description	Text (area name)
С	FORMTN_CODE	Formation Code	Number (4 character field left padded with zeros (e.g. 175 = 0175))
D	FORMTN_DESC	Formation Description	Text (formation geologic name)
Е	POOL_SEQ	Pool Sequence	Text (A, B, C, etc.)
F	PROJECT_CODE	Project Code	Number (2 character field left padded with zeros (e.g. 2 = 02))
G	PROJECT_DESC	Project Description	Text (project name, operator)
Н	PROJECT_TYPE	Project Type	Text (Good Engineering Practice; Concurrent Production, etc.)
I	DRLG_OR_REVISED_ FLAG	Drilling or Revised	Text (Drilling; Revised) Reason for reserve change

J	PLANT_ASSIGNED	Plant Assigned	Number (8 character field left padded with zeros (e.g. 437 = 00000437))
K	PLANT_ASSIGNED_ NAME	Plant Assigned Name	Text (i.e. Westcoast Clarkelake B- 084-G/094-J-10)
L	AREA_EST_GAS	Area Established Gas (hectare)	Ha (pool mapped or assigned area)
M	COMPRESS_FACTOR	Compressibility Factor	Decimal
N	CRITCL_PRESS	Critical Pressure	kPa
0	CRITCL_TEMP	Critical Temperature	Kelvin
Р	NET_PAY_EST_GAS	Net Pay used for Established Reserves	Metres
Q	POOL_CONNCTD_ FLAG	Pool Connected	Y / N (pool connected to gathering system)
R	PORSTY_GAS_AVG	Average Gas Porosity	Decimal
S	GAS_PRODUCT_ TYPE	Gas Product Type	Gas Cap / Non-Associated Gas
Т	RECVRY_FACTOR_ GAS	Gas Recovery Factor	Decimal (calculated or assumed value used)
U	WATER_SATRTN_ GAS_AVG	Water Saturation	Decimal
V	SHRINKG_FACTOR	Shrinkage Factor	Decimal (processing losses)
W	RESRVR_INIT_PRESS	Reservoir Initial Pressure	kPaa
Х	OFFCL_CALC_ METHD_FLAG	Official Calculation Method	D=decline; V=volumetric; M=material balance; X=depleted
Υ	GAS_OIL_CONTCT_ DEPTH	Gas/Oil Contact Depth	mSS
Z	WATER_CONTCT_ DEPTH	Water/Contact Depth	mSS
AA	AVG_FORMTN_ TEMP	Average Formation Temperature (Kelvin)	К
AB	DATUM_DEPTH	Datum Depth	mSS
AC	OFFICIAL_GAS_IN_	Official Gas In Place	10 ³ m ³

	PLACE		
AD	INIT_EST_GAS_RAW	Initial Established Raw Gas	10 ³ m ³
AE	INIT_EST_GAS_MKT	Initial Established Marketable Gas	10 ³ m ³
AF	REM_GAS_RAW	Remaining Recoverable Raw Gas	10 ³ m ³
AG	REM_GAS_MKT	Remaining Recoverable Marketable Gas	10 ³ m ³
АН	DISCOVERY_WA	WA Number of Discovery Well	Number (5 character field left padded with zeros (e.g. 23 = 00023))
Al	DISCOVERY_WA_ Name	Discovery Well Name	Text
AJ	DISCOVERY_DATE	Discovery Date	Date (уууу)

2.2. Oil Reserves File

Column	Title	Description	Units/Comments
A	AREA_CODE	Area Code	Number (4 character field left padded with zeros (e.g. 40 = 0040))
В	AREA_DESC	Area Description	Text (area name)
С	FORMTN_CODE	Formation Code	Number (4 character field left padded with zeros (e.g. 175 = 0175))
D	FORMTN_DESC	Formation Description	Text (formation geologic name)
E	POOL_SEQ	Pool Sequence	Text (A, B, C, etc.)
F	PROJECT_CODE	Project Code	Number (2 character field left padded with zeros (e.g. 2 = 02))
G	PROJECT_DESC	Project Description	Text (project name, operator)
Н	PROJECT_TYPE	Project Type	Text (Good Engineering Practice; Concurrent Production, etc.)
I	DRLG_OR_REVISED_FLAG	Drilling or Revised	Text (Drilling; Revised) Reason for reserve change
J	PLANT_ASSIGNED	Plant Assigned	Number (8 character field left padded with zeros (e.g. 437 = 00000437))

K PLANT_ASSIGNED_NAME Plant Assigned Name Text (i.e. Westcoast Fort St John SE 15-25-082-18W6) L AREA_EST_OIL Area Established Oil (Hectare) Ha (pool mapped or assigned area) M FORMTN_VOL_FACTOR Formation Volume Factor m³/m³ N INIT_SOLN_GAS_OIL_RATIO Initial Solution Gas/Oil Ratio m³/m³ O NET_PAY_EST_OIL Net Pay Established Oil Metres P POOL_CONNCTD_FLAG Pool Connected Flag Y / N (pool connected to gathering system) Q OIL_SATRTN_PRESS Oil Saturation Pressure kPa R PORSTY_OIL_AVG Oil Average Porosity Decimal S RECVRY_FACTOR_OIL Oil Recovery Factor Decimal (calculated or assumed value used) T RESVR_DRIVE_CODE Mechanism Text (depletion, waterflood, gas cap expansion) U WATER_SATRTN_OIL_AVG Water Saturation Decimal V OIL_DENSTY Oil Density kg/m³ W RESRVR_INIT_PRESS Reservoir Initial Pressure kPaa X OFFCL_CALC_METHD_FLAG V=volumetric; V=volumetric; V=volumetric; V=volumetric; V=volumetric; V=volumetric; V=volumetric; V=volumetric; V=volumetric; V=vo				
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AE GAS_FLAG Gas Flag Y/N AF OFFICIAL_OIL_IN_PLACE Original Oil in Place m ³	AC	OIL_VISCSTY	Oil Viscosity	mPa-s
AF OFFICIAL_OIL_IN_PLACE Original Oil in Place m ³	AD	GAS_CONSERV_FLAG	Gas Conservation Flag	Y/N
	AE	GAS_FLAG	Gas Flag	Y/N
AG INIT_EST_OIL Initial Oil in Place m ³	AF	OFFICIAL_OIL_IN_PLACE	Original Oil in Place	m ³
	AG	INIT_EST_OIL	Initial Oil in Place	m ³

AH	REMAINING_OIL	Remaining Recoverable Oil	m ³
Al	SOLN_GAS_IN_PLACE	Solution Gas In Place	10 ³ m ³
AJ	SOLN_GAS_RAW	Recoverable Solution Gas (Raw)	10 ³ m ³
AK	SOLN_GAS_MKT	Recoverable Solution Gas (Marketable)	10 ³ m ³
AL	RECVRY_FACTOR_SOLN_GAS	Solution Gas Recovery Factor	Decimal
AM	REM_CONDENSATE	Remaining Recoverable Condensate	m ³
AN	DISCOVERY_WA	Discovery Well WA #	Number (5 character field left padded with zeros (e.g. 23 = 00023))
AO	DISCOVERY_WA_NAME	Discovery Well Name	Text
AP	DISCOVERY_DATE	Discovery Date	Date (yyyy)

2.3. Production

Column	Title	Description	Units/Comments
Α		Area Code	Number (4 character field left padded with zeros (e.g.
	AREA_CODE		40 = 0040))
В	AREA_DESC	Area Description	Text (area name)
С		Formation Code	Number (4 character field left padded with zeros
	FORMTN_CODE		(e.g. 175 = 0175))
D	FORMTN_DESC	Formation Description	Text (formation geologic name)
E	POOL_SEQ	Pool Sequence	Text (A, B, C, etc.)
F		Project Code	Number (2 character field left padded with zeros
	PROJECT_CODE		(e.g. 2 = 02))
G	PROJECT_DESC	Project Description	Text (project name, operator)

Н	PROJECT_TYPE	Project Type	Text (Good Engineering Practice; Concurrent
1	POOL_IP_PERIOD	Pool Initial Production Date	Production, etc.) Date (yyyymm)
J	POOL_LAST_PROD_PERIOD	Pool Last Production Date	Date (yyyymm)
К	ANN_OIL_PROD	2013 Annual Oil Production	m ³
L	CUM_OIL_PROD	Cumulative Oil Production (to 31/12/2013)	m ³
M	ANN_RAW_GAS_PROD	Annual Raw Gas Production	10 ³ m ³
N	CUM_RAW_GAS_PROD	Cumulative Raw Gas Production (to 31/12/2013)	10 ³ m ³
0	CUM_MKT_GAS_PROD	Cumulative Marketable Gas Production (to 31/12/2013)	10 ³ m ³
P	ANN_GAS_INJ	Annual Gas Injection	10 ³ m ³
Q	CUM_GAS_INJ	Cumulative Gas Injection	10 ³ m ³
R	ANN_CON_PROD	Annual Condensate Production (to 31/12/2013)	m ³
S	CUM_CON_PROD	Cumulative Condensate Production (to 31/12/2013)	m ³

2.4. Gas Analysis

Column	Title	Description	Units/Comments
A	AREA_CODE	Area Code	Number (4 character field left padded with zeros (e.g. 40 = 0040))
В	AREA_DESC	Area Description	Text (area name)
С	FORMTN_CODE	Formation Code	Number (4 character field left padded with zeros (e.g. 175 = 0175))
D	FORMTN_DESC	Formation Description	Text (formation geologic name)
Е	POOL_SEQ	Pool Sequence	Text (A, B, C, etc.)

F PROJECT_CODE Project Code Number (2 character field left padded with zeros (e.g. 2 = 02)) G PROJECT_DESC Project Description Text (project name, operator) Text (Good Engineering Practice; Concurrent Production, etc.) F PROJECT_TYPE Project Type Text (Good Engineering Practice; Concurrent Production, etc.) F SAMPLE_POINT_CODE Describes Sample Source J H2_FRACTN Hydrogen Mole Fraction in Gas Sample K HELIUM_FRACTN Helium Mole Fraction in Gas Sample C CO2_FRACTN C Carbon Dioxide Mole Fraction in Gas Sample M H2S_FRACTN Hydrogen Sulphide Mole Fraction in Gas Sample N N2_FRACTN Nitrogen Mole Fraction in Gas Sample P C2_FRACTN Propane Mole Fraction in Gas Sample C C1_FRACTN Propane Mole Fraction In Gas Sample R IC4_FRACTN Propane Mole Fraction In Gas Sample S NC4_FRACTN Normal-Butane Mole Fraction in Gas Sample T IC5_FRACTN Normal-Butane Mole Fraction in Gas Sample C C6_FRACTN Normal-Pentane Mole Fraction in Gas Sample P Decimal Fraction in Gas Sample Decimal				
H PROJECT_TYPE Project Type Text (Good Engineering Practice; Concurrent Production, etc.) I SAMPLE_POINT_CODE Describes Sample Source J H2_FRACTN Hydrogen Mole Fraction in Gas Sample K HELIUM_FRACTN Helium Mole Fraction in Gas Sample L CO2_FRACTN Carbon Dioxide Mole Fraction in Gas Sample M H2S_FRACTN Hydrogen Sulphide Mole Fraction in Gas Sample N N2_FRACTN Nitrogen Mole Fraction in Gas Sample O C1_FRACTN Methane Mole Fraction in Gas Sample P C2_FRACTN Ethane Mole Fraction in Gas Sample Q C3_FRACTN Ethane Mole Fraction in Gas Sample R IC4_FRACTN Propane Mole Fraction in Gas Sample S NC4_FRACTN Iso-Butane Mole Fraction in Gas Sample T IC5_FRACTN Normal-Butane Mole Fraction in Gas Sample U NC5_FRACTN Normal-Pentane Mole Fraction in Gas Sample U NC5_FRACTN Normal-Pentane Mole Fraction in Gas Sample V C6_FRACTN Hexane Mole Fraction in Gas Sample Decimal	F	PROJECT_CODE	Project Code	left padded with zeros (e.g.
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Source	Н	PROJECT_TYPE	Project Type	Practice; Concurrent
Fraction in Gas Sample K HELIUM_FRACTN Helium Mole Fraction in Gas Sample L CO2_FRACTN Carbon Dioxide Mole Fraction in Gas Sample M H2S_FRACTN Hydrogen Sulphide Mole Fraction in Gas Sample N N2_FRACTN Nitrogen Mole Fraction in Gas Sample O C1_FRACTN Methane Mole Fraction in Gas Sample P C2_FRACTN Ethane Mole Fraction in Gas Sample Q C3_FRACTN Propane Mole Fraction in Gas Sample R IC4_FRACTN Jose-Butane Mole Fraction in Gas Sample S NC4_FRACTN Normal-Butane Mole Fraction in Gas Sample T IC5_FRACTN Iso-Pentane Mole Fraction in Gas Sample U NC5_FRACTN Normal-Pentane Mole Fraction in Gas Sample V C6_FRACTN Hexane Mole Fraction in Gas Sample Decimal In Gas Sample	I	SAMPLE_POINT_CODE	•	Text (i.e. Meter Run)
in Gas Sample Carbon Dioxide Mole Fraction in Gas Sample M H2S_FRACTN Hydrogen Sulphide Mole Fraction in Gas Sample N N2_FRACTN Nitrogen Mole Fraction in Gas Sample O C1_FRACTN Methane Mole Fraction in Gas Sample P C2_FRACTN Ethane Mole Fraction in Gas Sample Q C3_FRACTN Propane Mole Fraction in Gas Sample R IC4_FRACTN Iso-Butane Mole Fraction in Gas Sample S NC4_FRACTN Normal-Butane Mole Fraction in Gas Sample T IC5_FRACTN Iso-Pentane Mole Fraction in Gas Sample U NC5_FRACTN Normal-Pentane Mole Fraction in Gas Sample V C6_FRACTN Normal-Pentane Mole Fraction in Gas Sample Decimal Decimal Decimal Decimal Fraction in Gas Sample Decimal Decimal Decimal Decimal Decimal Decimal Decimal Decimal Decimal Fraction in Gas Sample Decimal Normal-Pentane Mole Fraction in Gas Sample	J	H2_FRACTN	, -	Decimal
Fraction in Gas Sample M H2S_FRACTN Hydrogen Sulphide Mole Fraction in Gas Sample N N2_FRACTN Nitrogen Mole Fraction in Gas Sample C C1_FRACTN Methane Mole Fraction in Gas Sample P C2_FRACTN Ethane Mole Fraction in Gas Sample Q C3_FRACTN Propane Mole Fraction in Gas Sample R IC4_FRACTN Iso-Butane Mole Fraction in Gas Sample S NC4_FRACTN Normal-Butane Mole Fraction in Gas Sample T IC5_FRACTN Iso-Pentane Mole Fraction in Gas Sample U NC5_FRACTN Normal-Pentane Mole Fraction in Gas Sample V C6_FRACTN Normal-Pentane Mole Fraction in Gas Sample V C6_FRACTN Decimal Decima	K	HELIUM_FRACTN		Decimal
Mole Fraction in Gas Sample N N2_FRACTN Nitrogen Mole Fraction in Gas Sample Decimal Fraction in Gas Sample C1_FRACTN Methane Mole Fraction in Gas Sample P C2_FRACTN Ethane Mole Fraction in Gas Sample Q C3_FRACTN Propane Mole Fraction in Gas Sample R IC4_FRACTN Iso-Butane Mole Fraction in Gas Sample S NC4_FRACTN Normal-Butane Mole Fraction in Gas Sample T IC5_FRACTN Iso-Pentane Mole Fraction in Gas Sample U NC5_FRACTN Normal-Pentane Mole Fraction in Gas Sample V C6_FRACTN Hexane Mole Fraction in Gas Sample Decimal Fraction in Gas Sample	L	CO2_FRACTN		Decimal
Fraction in Gas Sample O C1_FRACTN Methane Mole Fraction in Gas Sample P C2_FRACTN Ethane Mole Fraction in Gas Sample Q C3_FRACTN Propane Mole Fraction in Gas Sample R IC4_FRACTN Iso-Butane Mole Fraction in Gas Sample S NC4_FRACTN Normal-Butane Mole Fraction in Gas Sample T IC5_FRACTN Iso-Pentane Mole Fraction in Gas Sample U NC5_FRACTN Normal-Pentane Mole Fraction in Gas Sample V C6_FRACTN Normal-Pentane Mole Fraction in Gas Sample V C6_FRACTN Decimal Decimal Decimal in Gas Sample	M	H2S_FRACTN	Mole Fraction in Gas	Decimal
Fraction in Gas Sample P C2_FRACTN Ethane Mole Fraction in Gas Sample Q C3_FRACTN Propane Mole Fraction in Gas Sample R IC4_FRACTN Iso-Butane Mole Fraction in Gas Sample S NC4_FRACTN Normal-Butane Mole Fraction in Gas Sample T IC5_FRACTN Iso-Pentane Mole Fraction in Gas Sample U NC5_FRACTN Normal-Pentane Mole Fraction in Gas Sample V C6_FRACTN Hexane Mole Fraction in Gas Sample V C6_FRACTN Decimal Decimal	N	N2_FRACTN		Decimal
in Gas Sample Q C3_FRACTN Propane Mole Fraction in Gas Sample R IC4_FRACTN Iso-Butane Mole Fraction in Gas Sample S NC4_FRACTN Normal-Butane Mole Fraction in Gas Sample T IC5_FRACTN Iso-Pentane Mole Fraction in Gas Sample U NC5_FRACTN Normal-Pentane Mole Fraction in Gas Sample V C6_FRACTN Hexane Mole Fraction in Gas Sample V C6_FRACTN Hexane Mole Fraction in Gas Sample	0	C1_FRACTN		Decimal
In Gas Sample R IC4_FRACTN Iso-Butane Mole Fraction in Gas Sample S NC4_FRACTN Normal-Butane Mole Fraction in Gas Sample T IC5_FRACTN Iso-Pentane Mole Fraction in Gas Sample U NC5_FRACTN Normal-Pentane Mole Fraction in Gas Sample V C6_FRACTN Hexane Mole Fraction in Gas Sample V C6_FRACTN Decimal in Gas Sample	Р	C2_FRACTN		Decimal
Fraction in Gas Sample S NC4_FRACTN Normal-Butane Mole Fraction in Gas Sample T IC5_FRACTN Iso-Pentane Mole Fraction in Gas Sample U NC5_FRACTN Normal-Pentane Mole Fraction in Gas Sample V C6_FRACTN Hexane Mole Fraction in Gas Sample	Q	C3_FRACTN	•	Decimal
T IC5_FRACTN Iso-Pentane Mole Fraction in Gas Sample U NC5_FRACTN Normal-Pentane Mole Fraction in Gas Sample V C6_FRACTN Hexane Mole Fraction in Gas Sample	R	IC4_FRACTN		Decimal
U NC5_FRACTN Normal-Pentane Mole Fraction in Gas Sample V C6_FRACTN Hexane Mole Fraction in Gas Sample Decimal Decimal in Gas Sample	S	NC4_FRACTN		Decimal
Fraction in Gas Sample V C6_FRACTN Hexane Mole Fraction Decimal in Gas Sample	Т	IC5_FRACTN		Decimal
in Gas Sample	U	NC5_FRACTN		Decimal
W C7_FRACTN Heptane Mole Fraction Decimal	V	C6_FRACTN		Decimal
	W	C7_FRACTN	Heptane Mole Fraction	Decimal

		in Gas Sample	
Х	C8_FRACTN	Octane Mole Fraction in Gas Sample	Decimal
Υ	C9_FRACTN	Nonane Mole Fraction in Gas Sample	Decimal
Z	C10_FRACTN	Decane Mole Fraction in Gas Sample	Decimal
AA	GHV_CALC	Gross Heating Value (Calculated)	MJ/m ³
AB	RELTV_DENSTY_CALC	Relative Density	Ratio
AC	PCP_PPC	Pseudo Critical Pressure	kPa
AD	PRESS_RECVD	Pressure Received	kPa
AE	PCP_PTC	Pseudo Critical Temperature - Kelvin	К
AF	TEMP_RECVD	Temperature Received (Degrees Celcius)	°C