

Organization	Reporting Organization	Reporting Organization Name	Order Number	Entity Requesting Analysis	Purpose	Project							
		68 ISOTECH	28325	4491		BWSE/GWA_Production_Well_Sampling							
Sample	COGCC Facility No.	Sample Date and Time	API #	LAB Sample ID	Sample Type	Matrix	Comments	Project Number	Chain of Custody ID	Date Received by Lab			
		2/24/2015 12:09		494492	dom	GAS	SP_05_013_06465_PC; BWSE/GWA_Production_Well_Sampling Conc						
Batch	LabID	Lab Batch Identifier	Leach Date	Extract Date and Time	Extract Method	Start Date and Time	Method	Init Vol	Final Vol	Init Vol Units	Final Vol Units	Analysis Date and	
	10098	494492											
Result	CAS Number	Analysis Name	Analysis Method	Analytical Method Modifier	Unit	Result Value	Qualifier	Test Type	Result Text	Data Flag	Dilution	Fraction Type	
	7440-59-7	HELIUM	SOP		MOL %	0.0095				Y			
	1333-74-0	HYDROGEN	SOP		MOL %	0.01	ND			N			
	7440-37-1	ARGON	SOP		MOL %	0.005	ND			N			
	7782-44-7	OXYGEN (O2)	SOP		MOL %	0.01	ND			N			
	124-38-9	CARBON DIOXIDE	SOP		MOL %	1.86				Y			
	7727-37-9	NITROGEN (N2)	SOP		MOL %	0.31				Y			
	630-08-0	CARBON MONOXIDE	SOP		MOL %	0.01	ND			N			
	74-82-8	METHANE	SOP		MOL %	75.03				Y			
	74-85-1	ETHENE	SOP		MOL %	0.0002				Y			
	74-84-0	ETHANE	SOP		MOL %	13.59				Y			
	115-07-1	PROPYLENE	SOP		MOL %	0.0001	ND			N			
	74-98-6	PROPANE	SOP		MOL %	6.02				Y			

75-28-5	ISOBUTANE	SOP	MOL %	0.864	Y
106-97-8	N-BUTANE	SOP	MOL %	1.83	Y
iC5	ISOPENTANE	SOP	MOL %	0.267	Y
109-66-0	N-PENTANE	SOP	MOL %	0.212	Y
92112-69-1+	C6+ (hexanes +)	SOP	MOL %	0.0087	Y
SpGrav	Specific Gravity	SOP	RATIO_AIR	0.746	Y
BTU	British Thermal Units	SOP	BTU	1264	Y
delta13C_c1	DELTA 13C C1	SOP	‰	-47.28	Y
delta13C_C2	DELTA 13C C2	SOP	‰	-30.99	Y
delta13C_C3	DELTA 13C C3	SOP	‰	-27.67	Y
deltaD_C1	DELTA D C1	SOP	‰	-237.8	Y

Report

Basis	Comments	File Name	Column #			
MDC	Requested		Instrument	Method		
	MDC	Detection Limit	Detection Limit	Detection Limit	Comments	AnalyticalBatchID
		0.005	0.005	0.005		494492
		0.01	0.01	0.01		494492
		0.005	0.005	0.005		494492
		0.01	0.01	0.01		494492
		0.005	0.005	0.005		494492
		0.01	0.01	0.01		494492
		0.01	0.01	0.01		494492
		0.0002	0.0002	0.0002		494492
		0.0001	0.0001	0.0001		494492
		0.0001	0.0001	0.0001		494492
		0.0001	0.0001	0.0001		494492
		0.0001	0.0001	0.0001		494492

[illegible]