

Lab #: 171129 Job #: 11984
 Sample Name/Number: 05-055-06166 (Rohr 04-10)
 Company: Colorado Oil & Gas Conservation
 Date Sampled: 9/17/2009
 Container: Dissolved Gas Bottle
 Field/Site Name: Complaint 200218267
 Location: Huerfano County
 Formation/Depth:
 Sampling Point:
 Date Received: 9/18/2009 Date Reported: 10/01/2009

received
 10/01/2009
 analytical data for
 complaint
 200218267

Component	Chemical mol. %	Delta 13C per mil	Delta D per mil	Delta 18O per mil
Carbon Monoxide -----	nd			
Hydrogen Sulfide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	na			
Oxygen + Argon -----	2.18			
Nitrogen -----	22.67			
Carbon Dioxide -----	0.33			
Methane -----	74.81	-51.14	-233.2	
Ethane -----	0.0077			
Ethylene -----	nd			
Propane -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			
Water -----			-85.9	-11.94
Dissolved Inorganic Carbon		-6.22		

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 758 Specific gravity, calculated: 0.663

Remarks: Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.64

*Addition of helium negates the ability to detect native helium or hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of carbon is relative to VPDB. Isotopic composition of hydrogen and oxygen are relative to VSMOW. Calculations for BTU and specific gravity per D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %. ASTM Chemical analysis based on standards accurate to within 2%

Lab #: 171130 Job #: 11984
 Sample Name/Number: 05-055-06290 (Rohr 09-04)
 Company: Colorado Oil & Gas Conservation
 Date Sampled: 9/17/2009
 Container: Dissolved Gas Bottle
 Field/Site Name: Complaint 200218267
 Location: Huerfano County
 Formation/Depth:
 Sampling Point:
 Date Received: 9/18/2009 Date Reported: 10/01/2009

Component	Chemical mol. %	Delta 13C per mil	Delta D per mil	Delta 18O per mil
Carbon Monoxide -----	nd			
Hydrogen Sulfide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	na			
Oxygen + Argon -----	1.09			
Nitrogen -----	15.88			
Carbon Dioxide -----	0.74			
Methane -----	82.28	-49.31	-238.6	
Ethane -----	0.0109			
Ethylene -----	nd			
Propane -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			
Water -----			-83.6	-11.73
Dissolved Inorganic Carbon		4.09		

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 834

Specific gravity, calculated: 0.633

Remarks: Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.73

*Addition of helium negates the ability to detect native helium or hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of carbon is relative to VPDB. Isotopic composition of hydrogen and oxygen are relative to VSMOW. Calculations for BTU and specific gravity per D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %. ASTM Chemical analysis based on standards accurate to within 2%

Lab #: 171131 Job #: 11984
 Sample Name/Number: 05-055-06165 (Rohr 09-10)
 Company: Colorado Oil & Gas Conservation
 Date Sampled: 9/17/2009
 Container: Dissolved Gas Bottle
 Field/Site Name: Complaint 200218267
 Location: Huerfano County
 Formation/Depth:
 Sampling Point:
 Date Received: 9/18/2009 Date Reported: 10/01/2009

Component	Chemical mol. %	Delta 13C per mil	Delta D per mil	Delta 18O per mil
Carbon Monoxide -----	nd			
Hydrogen Sulfide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	na			
Oxygen + Argon -----	16.66			
Nitrogen -----	46.63			
Carbon Dioxide -----	0.31			
Methane -----	36.40	-50.70	-238.1	
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			
Water -----			-86.4	-12.00
Dissolved Inorganic Carbon		3.23		

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 369

Specific gravity, calculated: 0.841

Remarks: Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.77

*Addition of helium negates the ability to detect native helium or hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of carbon is relative to VPDB. Isotopic composition of hydrogen and oxygen are relative to VSMOW. Calculations for BTU and specific gravity per D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %. ASTM Chemical analysis based on standards accurate to within 2%