

Lab #: 67652 Job #: 5098
 Sample Name/Number: Beaver Pond
 Company: Colorado Oil & Gas Conservation
 Date Sampled: 9/19/2004
 Container: Glass Bottle
 Field/Site Name: West Divide Creek Seep
 Location: Garfield County
 Formation/Depth:
 Sampling Point:
 Date Received: 5/21/2004 Date Reported: 5/26/2004

Component	Chemical		Delta 13C per mil	Delta D per mil	Delta 15N per mil
	Chemical mol. %	Air Free vol. %			
Carbon Monoxide -----	nd	nd			
Hydrogen Sulfide -----	nd	nd			
Helium -----	nd	nd			
Hydrogen -----	nd	nd			
Argon -----	0.90	nd			
Oxygen -----	20.56				
Nitrogen -----	78.33	88.90			
Carbon Dioxide -----	0.07	3.70			
Methane -----	0.14	7.40			
Ethane -----	nd	nd			
Ethylene -----	nd	nd			
Propane -----	nd	nd			
Iso-butane -----	nd	nd			
N-butane -----	nd	nd			
Iso-pentane -----	nd	nd			
N-pentane -----	nd	nd			
Hexanes + -----	nd	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 1
 Specific gravity, calculated: 0.999

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

Lab #: 67653 Job #: 5098
 Sample Name/Number: Aspen RM 10-6C Production gas
 Company: Colorado Oil & Gas Conservation
 Date Sampled: 5/19/2004
 Container: Tedlar Bag
 Field/Site Name: West Divide Creek Seep
 Location: Garfield County
 Formation/Depth:
 Sampling Point:
 Date Received: 5/21/2004 Date Reported: 5/26/2004

Component	Chemical		Delta 13C per mil	Delta D per mil	Delta 15N per mil
	Chemical mol. %	Air Free vol. %			
Carbon Monoxide -----	nd	nd			
Hydrogen Sulfide -----	nd	nd			
Helium -----	0.0024	0.0025			
Hydrogen -----	0.0027	0.0028			
Argon -----	0.034	nd			
Oxygen -----	0.86				
Nitrogen -----	2.85	nd			
Carbon Dioxide -----	0.10	0.10			
Methane -----	81.67	84.86	-40.93	-195.6	
Ethane -----	8.45	8.78			
Ethylene -----	nd	nd			
Propane -----	3.40	3.53			
Iso-butane -----	0.82	0.85			
N-butane -----	0.89	0.92			
Iso-pentane -----	0.35	0.36			
N-pentane -----	0.28	0.29			
Hexanes + -----	0.29	0.30			

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 1160

Specific gravity, calculated: 0.690

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

Lab #: 67654 Job #: 5098
 Sample Name/Number: Aspen RM 10-6C Bradenhead
 Company: Colorado Oil & Gas Conservation
 Date Sampled: 5/19/2004
 Container: Tedlar Bag
 Field/Site Name: West Divide Creek Seep
 Location: Garfield County
 Formation/Depth:
 Sampling Point:
 Date Received: 5/21/2004 Date Reported: 5/26/2004

Component	Chemical		Delta 13C per mil	Delta D per mil	Delta 15N per mil
	Chemical mol. %	Air Free vol. %			
Carbon Monoxide -----	nd	nd			
Hydrogen Sulfide -----	nd	nd			
Helium -----	0.0039	0.0041			
Hydrogen -----	0.35	0.37			
Argon -----	0.17	0.12			
Oxygen -----	1.19				
Nitrogen -----	15.22	11.43			
Carbon Dioxide -----	0.01	0.01			
Methane -----	77.28	81.94	-41.24	-204.4	
Ethane -----	3.97	4.21			
Ethylene -----	nd	nd			
Propane -----	1.34	1.42			
Iso-butane -----	0.32	0.34			
N-butane -----	0.10	0.11			
Iso-pentane -----	0.025	0.027			
N-pentane -----	0.0067	0.0071			
Hexanes + -----	0.010	0.011			

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 904
 Specific gravity, calculated: 0.662

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

Lab #: 67655 Job #: 5098
 Sample Name/Number: Divide Creek Land & Cattle 24-5B Bradenhead
 Company: Colorado Oil & Gas Conservation
 Date Sampled: 5/19/2004
 Container: Tedlar Bag
 Field/Site Name: West Divide Creek Seep
 Location: Garfield County
 Formation/Depth:
 Sampling Point:
 Date Received: 5/21/2004 Date Reported: 5/26/2004

Component	Chemical				
	Chemical mol. %	Air Free vol. %	Delta 13C per mil	Delta D per mil	Delta 15N per mil
Carbon Monoxide -----	nd	nd			
Hydrogen Sulfide -----	nd	nd			
Helium -----	0.0018	0.0019			
Hydrogen -----	0.041	0.042			
Argon -----	0.032	nd			
Oxygen -----	0.84				
Nitrogen -----	2.45	nd			
Carbon Dioxide -----	nd	nd			
Methane -----	95.41	98.69	-43.28	-229.8	
Ethane -----	0.87	0.90			
Ethylene -----	nd	nd			
Propane -----	0.15	0.16			
Iso-butane -----	0.044	0.046			
N-butane -----	0.033	0.034			
Iso-pentane -----	0.021	0.022			
N-pentane -----	0.012	0.012			
Hexanes + -----	0.092	0.095			

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 995

Specific gravity, calculated: 0.578

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

Lab #: 67656 Job #: 5098
 Sample Name/Number: Divide Creek Land & Cattle 24-5B Intermediate
 Company: Colorado Oil & Gas Conservation
 Date Sampled: 5/19/2004
 Container: Tedlar Bag
 Field/Site Name: West Divide Creek Seep
 Location: Garfield County
 Formation/Depth:
 Sampling Point:
 Date Received: 5/21/2004 Date Reported: 5/26/2004

Component	Chemical mol. %	Chemical Air Free vol. %	Delta 13C per mil	Delta D per mil	Delta 15N per mil
Carbon Monoxide -----	nd	nd			
Hydrogen Sulfide -----	nd	nd			
Helium -----	0.0020	0.0021			
Hydrogen -----	0.019	0.020			
Argon -----	0.042	nd			
Oxygen -----	1.07				
Nitrogen -----	3.35	nd			
Carbon Dioxide -----	0.02	0.02			
Methane -----	94.98	99.42	-41.88	-218.5	
Ethane -----	0.36	0.38			
Ethylene -----	nd	nd			
Propane -----	0.063	0.066			
Iso-butane -----	0.024	0.025			
N-butane -----	0.019	0.020			
Iso-pentane -----	0.0099	0.010			
N-pentane -----	0.0029	0.0030			
Hexanes + -----	0.034	0.036			

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 975

Specific gravity, calculated: 0.578

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

Lab #: 67657 Job #: 5098
 Sample Name/Number: Galloway 2-6A Bradenhead
 Company: Colorado Oil & Gas Conservation
 Date Sampled: 5/19/2004
 Container: Tedlar Bag
 Field/Site Name: West Divide Creek Seep
 Location: Garfield County
 Formation/Depth:
 Sampling Point:
 Date Received: 5/21/2004 Date Reported: 5/26/2004

Component	Chemical		Delta 13C per mil	Delta D per mil	Delta 15N per mil
	Chemical mol. %	Air Free vol. %			
Carbon Monoxide -----	nd	nd			
Hydrogen Sulfide -----	nd	nd			
Helium -----	0.0022	0.0024			
Hydrogen -----	0.044	0.047			
Argon -----	0.062	nd			
Oxygen -----	1.41				
Nitrogen -----	5.20	nd			
Carbon Dioxide -----	0.02	0.02			
Methane -----	88.09	94.37	-38.66	-195.3	
Ethane -----	3.48	3.73			
Ethylene -----	nd	nd			
Propane -----	1.08	1.16			
Iso-butane -----	0.23	0.25			
N-butane -----	0.21	0.23			
Iso-pentane -----	0.065	0.070			
N-pentane -----	0.043	0.046			
Hexanes + -----	0.067	0.072			

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 1005

Specific gravity, calculated: 0.621

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

Lab #: 67658 Job #: 5098
 Sample Name/Number: Fazzi 26-11C Bradenhead
 Company: Colorado Oil & Gas Conservation
 Date Sampled: 5/19/2004
 Container: Tedlar Bag
 Field/Site Name: West Divide Creek Seep
 Location: Garfield County
 Formation/Depth:
 Sampling Point:
 Date Received: 5/21/2004 Date Reported: 5/26/2004

Component	Chemical mol. %	Chemical Air Free vol. %	Delta 13C per mil	Delta D per mil	Delta 15N per mil
Carbon Monoxide -----	nd	nd			
Hydrogen Sulfide -----	nd	nd			
Helium -----	0.0023	0.0024			
Hydrogen -----	0.051	0.054			
Argon -----	0.045	nd			
Oxygen -----	1.16				
Nitrogen -----	3.91	nd			
Carbon Dioxide -----	0.01	0.01			
Methane -----	91.13	96.04	-39.20	-192.1	
Ethane -----	2.88	3.04			
Ethylene -----	nd	nd			
Propane -----	0.26	0.27			
Iso-butane -----	0.098	0.10			
N-butane -----	0.14	0.15			
Iso-pentane -----	0.13	0.14			
N-pentane -----	0.051	0.054			
Hexanes + -----	0.13	0.14			

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 1003

Specific gravity, calculated: 0.603

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