

Lab #: 659674      Job #: 37966      IS-100664      Co. Job#: \_\_\_\_\_  
 Sample Name: Evans 26H-1 Wellhead      Co. Lab#: \_\_\_\_\_  
 Company: XTO Energy  
 API/Well: \_\_\_\_\_  
 Container: IsoTube®  
 Field/Site Name: XTO Jones  
 Location: \_\_\_\_\_  
 Formation: \_\_\_\_\_  
 Sampling Point: \_\_\_\_\_  
 Date Sampled: 4/05/2018 13:08      Date Received: 4/10/2018      Date Reported: 4/27/2018

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	nd			
Oxygen -----	0.059			
Nitrogen -----	0.20			
Carbon Dioxide -----	2.20			
Methane -----	97.10	-36.38	-148.0	
Ethane -----	0.419	-28.29		
Ethylene -----	nd			
Propane -----	0.0186			
Propylene -----	nd			
Iso-butane -----	0.0016			
N-butane -----	0.0025			
Iso-pentane -----	0.0003			
N-pentane -----	0.0002			
Hexanes + -----	0.0008			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 993

Specific gravity, calculated: 0.579

Remarks: Insufficient propane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Lab #: 659675 Job #: 37966 IS-100664 Co. Job#:   
 Sample Name: Ford 31H-1 Co. Lab#:   
 Company: XTO Energy   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: XTO Jones   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 4/05/2018 11:20 Date Received: 4/10/2018 Date Reported: 4/27/2018

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	nd			
Oxygen -----	0.050			
Nitrogen -----	0.15			
Carbon Dioxide -----	2.49			
Methane -----	96.98	-35.97	-149.6	
Ethane -----	0.311	-28.98		
Ethylene -----	nd			
Propane -----	0.0133			
Propylene -----	nd			
Iso-butane -----	0.0014			
N-butane -----	0.0020			
Iso-pentane -----	0.0003			
N-pentane -----	0.0002			
Hexanes + -----	0.0009			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 989

Specific gravity, calculated: 0.581

Remarks: Insufficient propane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Lab #: 659676      Job #: 37966      IS-100664      Co. Job#: \_\_\_\_\_  
 Sample Name: Jone 1-D      Co. Lab#: \_\_\_\_\_  
 Company: XTO Energy  
 API/Well: \_\_\_\_\_  
 Container: IsoTube®  
 Field/Site Name: XTO Jones  
 Location: \_\_\_\_\_  
 Formation: \_\_\_\_\_  
 Sampling Point: \_\_\_\_\_  
 Date Sampled: 4/02/2018 14:00      Date Received: 4/10/2018      Date Reported: 4/27/2018

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	0.0207			
Hydrogen -----	0.0186			
Argon -----	0.0076			
Oxygen -----	0.074			
Nitrogen -----	1.09			
Carbon Dioxide -----	1.56			
Methane -----	91.63	-38.47	-145.6	
Ethane -----	3.64	-25.07		
Ethylene -----	nd			
Propane -----	0.910	-23.83		
Propylene -----	nd			
Iso-butane -----	0.245			
N-butane -----	0.270			
Iso-pentane -----	0.158			
N-pentane -----	0.0991			
Hexanes + -----	0.276			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 1058  
 Specific gravity, calculated: 0.619

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.