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Lab #:	758365	Job #:	44525	IS-94649	Co. Job#:
Sample Name:	Dowdy 43-10 / Surface CSG				Co. Lab#:
Company:	Crestone Peak Resources				
API/Well:					
Container:	IsoTube®				
Field/Site Name:	Bradenhead Testing				
Location:					
Formation:					
Sampling Point:	261618				
Date Sampled:	3/04/2020 10:00	Date Received:	3/16/2020	Date Reported:	4/09/2020

Component	Chemical mol. %	$\delta^{13}C$ ‰	δD ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd			
Helium	0.0135			
Hydrogen	nd			
Argon	0.322			
Oxygen	7.55			
Nitrogen	27.43			
Carbon Dioxide	0.033			
Methane	52.67	-50.0	-253	
Ethane	6.64	-35.6		
Ethylene	nd			
Propane	3.39	-31.1		
Propylene	nd			
Iso-butane	0.404	-32.5		
N-butane	0.960	-29.0		
Iso-pentane	0.210	-28.4		
N-pentane	0.226	-27.9		
Hexanes +	0.151			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 807
Specific gravity, calculated: 0.809

Remarks: 16192628.1

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. %.

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Lab #:	758366	Job #:	44525	IS-94649	Co. Job#:
Sample Name:	Dowdy 43-10 / Production CSG				Co. Lab#:
Company:	Crestone Peak Resources				
API/Well:					
Container:	IsoTube®				
Field/Site Name:	Bradenhead Testing				
Location:					
Formation:					
Sampling Point:	261618				
Date Sampled:	3/04/2020 10:03	Date Received:	3/16/2020	Date Reported:	4/09/2020

Component	Chemical mol. %	$\delta^{13}C$ ‰	δD ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd			
Helium	0.0178			
Hydrogen	0.0479			
Argon	0.0694			
Oxygen	1.66			
Nitrogen	6.35			
Carbon Dioxide	3.29	2.8		
Methane	73.10	-46.7	-230	
Ethane	10.02	-30.8		
Ethylene	0.0001			
Propane	3.27	-27.1		
Propylene	nd			
Iso-butane	0.513	-29.4		
N-butane	0.913	-26.7		
Iso-pentane	0.337	-27.7		
N-pentane	0.261	-26.4		
Hexanes +	0.153			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 1081
Specific gravity, calculated: 0.738

Remarks: 16192628.1

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. %.