ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Lab #: 494492 Job #: 28325 IS-69033 Co. Job#:
Sample Name: SP_05_013_06465_PC Co. Lab#: 246747
Company: Anadarko
API/Well: BWSE
Container: IsoTube®
Field/Site Name: BWSE/GWA_Production_Well_Sampling
Location: NENW_23_1N_69W
Formation: SP
Sampling Point:
Date Sampled: 2/24/2015 Date Received: 2/27/2015 Date Reported: 3/19/2015

Component	Chemical mol. %	$\delta^{13}C$ ‰	δD ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd			
Helium	0.0095			
Hydrogen	nd			
Argon	nd			
Oxygen	nd			
Nitrogen	0.31			
Carbon Dioxide	1.86			
Methane	75.03	-47.28	-237.8	
Ethane	13.59	-30.99		
Ethylene	0.0002			
Propane	6.02	-27.67		
Propylene	nd			
Iso-butane	0.864			
N-butane	1.83			
Iso-pentane	0.267			
N-pentane	0.212			
Hexanes +	0.0087			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 1264
Specific gravity, calculated: 0.746

Remarks: 17503700

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