

Lab #: 839942 Job #: 51996 IS-107457 Co. Job#:   
 Sample Name: SVP-01 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald Gas Unit #1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 8/22/2022 10:30 Date Received: 8/26/2022 Date Reported: 9/07/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.915			
Oxygen -----	20.86			
Nitrogen -----	78.14			
Carbon Dioxide -----	0.085			
Methane -----	0.0003			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0001			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.000

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. %.

Lab #: 839943 Job #: 51996 IS-107457 Co. Job#:   
 Sample Name: SVP-02 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald Gas Unit #1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 8/22/2022 10:40 Date Received: 8/26/2022 Date Reported: 9/07/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.915			
Oxygen -----	20.87			
Nitrogen -----	78.13			
Carbon Dioxide -----	0.084			
Methane -----	0.0004			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.000

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. %.

Lab #: 839944 Job #: 51996 IS-107457 Co. Job#:   
 Sample Name: SVP-03 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald Gas Unit #1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 8/22/2022 10:50 Date Received: 8/26/2022 Date Reported: 9/07/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.917			
Oxygen -----	20.92			
Nitrogen -----	78.08			
Carbon Dioxide -----	0.083			
Methane -----	0.0004			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	0.0001			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	0.0001			
Iso-pentane -----	nd			
N-pentane -----	0.0001			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.000

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. %.

Lab #: 839945 Job #: 51996 IS-107457 Co. Job#:   
 Sample Name: SVP-04 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald Gas Unit #1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 8/22/2022 11:00 Date Received: 8/26/2022 Date Reported: 9/07/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.919			
Oxygen -----	20.96			
Nitrogen -----	78.04			
Carbon Dioxide -----	0.085			
Methane -----	0.0004			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	0.0001			
Iso-pentane -----	nd			
N-pentane -----	0.0001			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.000

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. %.

Lab #: 839946 Job #: 51996 IS-107457 Co. Job#:   
 Sample Name: SVP-05 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald Gas Unit #1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 8/22/2022 11:10 Date Received: 8/26/2022 Date Reported: 9/07/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.922			
Oxygen -----	20.96			
Nitrogen -----	78.03			
Carbon Dioxide -----	0.086			
Methane -----	0.0002			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.000

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. %.

Lab #: 854976 Job #: 53238 IS-107457 Co. Job#:   
 Sample Name: SVP03 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/18/2022 9:37 Date Received: 1/09/2023 Date Reported: 1/23/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.877			
Oxygen -----	19.66			
Nitrogen -----	79.32			
Carbon Dioxide -----	0.14			
Methane -----	0.0003			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0003			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 0.999

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. %.

Lab #: 854977 Job #: 53238 IS-107457 Co. Job#:   
 Sample Name: SVP05 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/18/2022 9:43 Date Received: 1/09/2023 Date Reported: 1/23/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.855			
Oxygen -----	19.06			
Nitrogen -----	79.37			
Carbon Dioxide -----	0.71			
Methane -----	0.0011			
Ethane -----	0.0003			
Ethylene -----	nd			
Propane -----	0.0002			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	0.0001			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0004			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.001

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. %.

Lab #: 854978 Job #: 53238 IS-107457 Co. Job#:   
 Sample Name: SVP06 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/18/2022 9:49 Date Received: 1/09/2023 Date Reported: 1/23/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.871			
Oxygen -----	19.34			
Nitrogen -----	78.18			
Carbon Dioxide -----	1.61			
Methane -----	0.0005			
Ethane -----	0.0002			
Ethylene -----	nd			
Propane -----	0.0001			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0003			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.006

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. %.



Lab #: 854979 Job #: 53238 IS-107457 Co. Job#:   
 Sample Name: SVP07 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/18/2022 9:55 Date Received: 1/09/2023 Date Reported: 1/23/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.858			
Oxygen -----	19.24			
Nitrogen -----	79.32			
Carbon Dioxide -----	0.58			
Methane -----	0.0002			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0003			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.000

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. %.

Lab #: 854980 Job #: 53238 IS-107457 Co. Job#:   
 Sample Name: SVP08 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/18/2022 10:01 Date Received: 1/09/2023 Date Reported: 1/23/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.817			
Oxygen -----	18.37			
Nitrogen -----	79.84			
Carbon Dioxide -----	0.97			
Methane -----	0.0007			
Ethane -----	0.0002			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.001

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. %.

Lab #: 854981 Job #: 53238 IS-107457 Co. Job#:   
 Sample Name: SVP09 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/18/2022 10:07 Date Received: 1/09/2023 Date Reported: 1/23/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.839			
Oxygen -----	18.73			
Nitrogen -----	79.53			
Carbon Dioxide -----	0.90			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.001

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. %.

Lab #: 854982 Job #: 53238 IS-107457 Co. Job#:   
 Sample Name: SVP10 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/18/2022 10:13 Date Received: 1/09/2023 Date Reported: 1/23/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.810			
Oxygen -----	18.27			
Nitrogen -----	80.43			
Carbon Dioxide -----	0.49			
Methane -----	0.0012			
Ethane -----	0.0004			
Ethylene -----	nd			
Propane -----	0.0002			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 0.998

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. %.

Lab #: 854983 Job #: 53238 IS-107457 Co. Job#:   
 Sample Name: SVP11 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/18/2022 10:19 Date Received: 1/09/2023 Date Reported: 1/23/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.852			
Oxygen -----	19.10			
Nitrogen -----	79.76			
Carbon Dioxide -----	0.29			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0001			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 0.999

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. %.

Lab #: 854984 Job #: 53238 IS-107457 Co. Job#:   
 Sample Name: SVP12 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/18/2022 10:25 Date Received: 1/09/2023 Date Reported: 1/23/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.850			
Oxygen -----	19.07			
Nitrogen -----	79.31			
Carbon Dioxide -----	0.77			
Methane -----	0.0002			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.001

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. %.

Lab #: 854985 Job #: 53238 IS-107457 Co. Job#:   
 Sample Name: SVP13 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/18/2022 10:31 Date Received: 1/09/2023 Date Reported: 1/23/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.850			
Oxygen -----	19.08			
Nitrogen -----	79.57			
Carbon Dioxide -----	0.50			
Methane -----	0.0006			
Ethane -----	0.0003			
Ethylene -----	nd			
Propane -----	0.0002			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.000

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. %.

Lab #: 854986 Job #: 53238 IS-107457 Co. Job#:   
 Sample Name: SVP14 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/19/2022 10:37 Date Received: 1/09/2023 Date Reported: 1/23/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.830			
Oxygen -----	18.33			
Nitrogen -----	78.76			
Carbon Dioxide -----	2.08			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0003			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.007

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. %.



Lab #: 854987 Job #: 53238 IS-107457 Co. Job#:   
 Sample Name: SVP15 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/19/2022 10:43 Date Received: 1/09/2023 Date Reported: 1/23/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.936			
Oxygen -----	20.84			
Nitrogen -----	77.73			
Carbon Dioxide -----	0.49			
Methane -----	0.0002			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0010			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.002

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. %.

Lab #: 854988 Job #: 53238 IS-107457 Co. Job#:   
 Sample Name: SVP16 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/19/2022 10:49 Date Received: 1/09/2023 Date Reported: 1/23/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.936			
Oxygen -----	20.91			
Nitrogen -----	77.64			
Carbon Dioxide -----	0.51			
Methane -----	0.0002			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0008			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.003

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. %.

Lab #: 854989 Job #: 53238 IS-107457 Co. Job#:   
 Sample Name: SVP17 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/19/2022 10:55 Date Received: 1/09/2023 Date Reported: 1/23/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.936			
Oxygen -----	20.87			
Nitrogen -----	77.60			
Carbon Dioxide -----	0.59			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0005			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.003

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. %.

Lab #: 854990 Job #: 53238 IS-107457 Co. Job#:   
 Sample Name: SVP18 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/19/2022 11:01 Date Received: 1/09/2023 Date Reported: 1/23/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.937			
Oxygen -----	20.95			
Nitrogen -----	77.68			
Carbon Dioxide -----	0.43			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0006			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.002

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. %.

Lab #: 854991 Job #: 53238 IS-107457 Co. Job#:   
 Sample Name: SVP19 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/19/2022 11:07 Date Received: 1/09/2023 Date Reported: 1/23/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.934			
Oxygen -----	20.79			
Nitrogen -----	77.29			
Carbon Dioxide -----	0.99			
Methane -----	0.0003			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.005

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. %.

Lab #: 854992 Job #: 53238 IS-107457 Co. Job#:   
 Sample Name: SVP20 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/19/2022 11:13 Date Received: 1/09/2023 Date Reported: 1/23/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.939			
Oxygen -----	20.97			
Nitrogen -----	77.71			
Carbon Dioxide -----	0.38			
Methane -----	0.0003			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.002

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. %.

Lab #: 854993 Job #: 53238 IS-107457 Co. Job#:   
 Sample Name: SVP21 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/19/2022 11:19 Date Received: 1/09/2023 Date Reported: 1/23/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.925			
Oxygen -----	20.28			
Nitrogen -----	76.65			
Carbon Dioxide -----	2.14			
Methane -----	0.0003			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.011

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. %.

Lab #: 854994 Job #: 53238 IS-107457 Co. Job#:   
 Sample Name: SVP22 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/19/2022 11:25 Date Received: 1/09/2023 Date Reported: 1/23/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.937			
Oxygen -----	20.88			
Nitrogen -----	77.49			
Carbon Dioxide -----	0.69			
Methane -----	0.0004			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.004

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. %.



Lab #: 854995 Job #: 53238 IS-107457 Co. Job#:   
 Sample Name: SVP23 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/19/2022 11:31 Date Received: 1/09/2023 Date Reported: 1/23/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.924			
Oxygen -----	20.16			
Nitrogen -----	76.52			
Carbon Dioxide -----	2.39			
Methane -----	0.0011			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0005			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.012

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. %.

Lab #: 854996 Job #: 53238 IS-107457 Co. Job#:   
 Sample Name: SVP24 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/19/2022 11:37 Date Received: 1/09/2023 Date Reported: 1/23/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.923			
Oxygen -----	20.22			
Nitrogen -----	76.56			
Carbon Dioxide -----	2.29			
Methane -----	0.0021			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0005			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.011

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. %.

Lab #: 864380 Job #: 54017 IS-107457 Co. Job#:   
 Sample Name: SVP03 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 3/17/2023 12:20 Date Received: 3/27/2023 Date Reported: 4/11/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.956			
Oxygen -----	21.52			
Nitrogen -----	77.48			
Carbon Dioxide -----	0.041			
Methane -----	0.0026			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0003			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.001

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. %.

Lab #: 864381 Job #: 54017 IS-107457 Co. Job#:   
 Sample Name: SVP05 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 3/17/2023 12:08 Date Received: 3/27/2023 Date Reported: 4/11/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.945			
Oxygen -----	20.88			
Nitrogen -----	77.44			
Carbon Dioxide -----	0.73			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0005			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.004

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. %.

Lab #: 864382 Job #: 54017 IS-107457 Co. Job#:   
 Sample Name: SVP06 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 3/17/2023 11:06 Date Received: 3/27/2023 Date Reported: 4/11/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.941			
Oxygen -----	20.36			
Nitrogen -----	77.16			
Carbon Dioxide -----	1.54			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0004			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.008

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. %.

Lab #: 864383 Job #: 54017 IS-107457 Co. Job#:   
 Sample Name: SVP07 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 3/17/2023 11:12 Date Received: 3/27/2023 Date Reported: 4/11/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.944			
Oxygen -----	20.60			
Nitrogen -----	77.40			
Carbon Dioxide -----	1.06			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0004			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.005

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. %.

Lab #: 864384 Job #: 54017 IS-107457 Co. Job#:   
 Sample Name: SVP08 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 3/17/2023 11:18 Date Received: 3/27/2023 Date Reported: 4/11/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.944			
Oxygen -----	20.64			
Nitrogen -----	77.36			
Carbon Dioxide -----	1.06			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0003			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.005

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. %.

Lab #: 864385 Job #: 54017 IS-107457 Co. Job#:   
 Sample Name: SVP09 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 3/17/2023 11:26 Date Received: 3/27/2023 Date Reported: 4/11/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.943			
Oxygen -----	20.58			
Nitrogen -----	77.32			
Carbon Dioxide -----	1.16			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0004			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.006

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. %.



Lab #: 864386 Job #: 54017 IS-107457 Co. Job#:   
 Sample Name: SVP11 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 3/17/2023 12:14 Date Received: 3/27/2023 Date Reported: 4/11/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.946			
Oxygen -----	21.03			
Nitrogen -----	77.47			
Carbon Dioxide -----	0.55			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0004			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.003

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. %.

Lab #: 864387 Job #: 54017 IS-107457 Co. Job#:   
 Sample Name: SVP12 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 3/17/2023 11:00 Date Received: 3/27/2023 Date Reported: 4/11/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.936			
Oxygen -----	20.90			
Nitrogen -----	78.11			
Carbon Dioxide -----	0.051			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0004			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.000

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. %.

Lab #: 864388 Job #: 54017 IS-107457 Co. Job#:   
 Sample Name: SVP13 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 3/17/2023 10:54 Date Received: 3/27/2023 Date Reported: 4/11/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.948			
Oxygen -----	21.29			
Nitrogen -----	77.65			
Carbon Dioxide -----	0.11			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0004			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.001

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. %.

Lab #: 864389 Job #: 54017 IS-107457 Co. Job#:   
 Sample Name: SVP14 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 3/17/2023 12:02 Date Received: 3/27/2023 Date Reported: 4/11/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.941			
Oxygen -----	20.21			
Nitrogen -----	77.10			
Carbon Dioxide -----	1.75			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.009

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. %.

Lab #: 864390 Job #: 54017 IS-107457 Co. Job#:   
 Sample Name: SVP15 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 3/17/2023 12:38 Date Received: 3/27/2023 Date Reported: 4/11/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.946			
Oxygen -----	21.00			
Nitrogen -----	77.48			
Carbon Dioxide -----	0.57			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0003			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.003

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. %.

Lab #: 864391 Job #: 54017 IS-107457 Co. Job#:   
 Sample Name: SVP16 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 3/17/2023 12:26 Date Received: 3/27/2023 Date Reported: 4/11/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.945			
Oxygen -----	20.88			
Nitrogen -----	77.39			
Carbon Dioxide -----	0.78			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0003			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.004

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. %.

Lab #: 864392 Job #: 54017 IS-107457 Co. Job#:   
 Sample Name: SVP17 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 3/17/2023 11:32 Date Received: 3/27/2023 Date Reported: 4/11/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.944			
Oxygen -----	20.82			
Nitrogen -----	77.41			
Carbon Dioxide -----	0.83			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0004			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.004

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. %.

Lab #: 864393 Job #: 54017 IS-107457 Co. Job#:   
 Sample Name: SVP18 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 3/17/2023 11:38 Date Received: 3/27/2023 Date Reported: 4/11/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.945			
Oxygen -----	20.77			
Nitrogen -----	77.44			
Carbon Dioxide -----	0.84			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.004

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. %.



Lab #: 864394 Job #: 54017 IS-107457 Co. Job#:   
 Sample Name: SVP19 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 3/17/2023 12:32 Date Received: 3/27/2023 Date Reported: 4/11/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.943			
Oxygen -----	20.81			
Nitrogen -----	77.33			
Carbon Dioxide -----	0.92			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0004			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.005

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. %.

Lab #: 864395 Job #: 54017 IS-107457 Co. Job#:   
 Sample Name: SVP20 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 3/17/2023 11:56 Date Received: 3/27/2023 Date Reported: 4/11/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.947			
Oxygen -----	20.96			
Nitrogen -----	77.54			
Carbon Dioxide -----	0.55			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0003			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.003

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. %.

Lab #: 864396 Job #: 54017 IS-107457 Co. Job#:   
 Sample Name: SVP21 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 3/17/2023 10:48 Date Received: 3/27/2023 Date Reported: 4/11/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.942			
Oxygen -----	19.79			
Nitrogen -----	77.11			
Carbon Dioxide -----	2.16			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0003			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.010

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. %.

Lab #: 864397 Job #: 54017 IS-107457 Co. Job#:   
 Sample Name: SVP22 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 3/17/2023 10:40 Date Received: 3/27/2023 Date Reported: 4/11/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.948			
Oxygen -----	21.16			
Nitrogen -----	77.55			
Carbon Dioxide -----	0.34			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0003			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.002

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. %.

Lab #: 864398 Job #: 54017 IS-107457 Co. Job#:   
 Sample Name: SVP23 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 3/17/2023 11:50 Date Received: 3/27/2023 Date Reported: 4/11/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.941			
Oxygen -----	19.93			
Nitrogen -----	77.03			
Carbon Dioxide -----	2.10			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0003			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.010

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. %.

Lab #: 864399 Job #: 54017 IS-107457 Co. Job#:   
 Sample Name: SVP24 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 3/17/2023 11:44 Date Received: 3/27/2023 Date Reported: 4/11/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.941			
Oxygen -----	20.34			
Nitrogen -----	77.22			
Carbon Dioxide -----	1.50			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0003			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.007

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. %.

Lab #: 874046 Job #: 54866 IS-107457 Co. Job#:   
 Sample Name: SVP07 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 5/19/2023 12:18 Date Received: 6/06/2023 Date Reported: 6/19/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.980			
Oxygen -----	14.26			
Nitrogen -----	79.49			
Carbon Dioxide -----	5.27			
Methane -----	0.0019			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0008			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.020

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. %.

Lab #: 874047 Job #: 54866 IS-107457 Co. Job#:   
 Sample Name: SVP08 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 5/19/2023 12:11 Date Received: 6/06/2023 Date Reported: 6/19/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.992			
Oxygen -----	14.23			
Nitrogen -----	80.39			
Carbon Dioxide -----	4.39			
Methane -----	0.0008			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0006			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.015

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. %.



Lab #: 874048 Job #: 54866 IS-107457 Co. Job#:   
 Sample Name: SVP09 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 5/19/2023 12:05 Date Received: 6/06/2023 Date Reported: 6/19/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.981			
Oxygen -----	16.80			
Nitrogen -----	79.35			
Carbon Dioxide -----	2.87			
Methane -----	0.0005			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.010

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. %.

Lab #: 874049 Job #: 54866 IS-107457 Co. Job#:   
 Sample Name: SPV14 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 5/19/2023 11:20 Date Received: 6/06/2023 Date Reported: 6/19/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.990			
Oxygen -----	13.02			
Nitrogen -----	80.68			
Carbon Dioxide -----	5.31			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0005			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.019

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. %.

Lab #: 874050 Job #: 54866 IS-107457 Co. Job#:   
 Sample Name: SVP16 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 5/19/2023 11:53 Date Received: 6/06/2023 Date Reported: 6/19/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.959			
Oxygen -----	20.01			
Nitrogen -----	78.09			
Carbon Dioxide -----	0.94			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0005			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.004

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. %.

Lab #: 874051 Job #: 54866 IS-107457 Co. Job#:   
 Sample Name: SVP17 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 5/19/2023 11:59 Date Received: 6/06/2023 Date Reported: 6/19/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.969			
Oxygen -----	17.87			
Nitrogen -----	78.90			
Carbon Dioxide -----	2.26			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0004			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.008

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. %.

Lab #: 874052 Job #: 54866 IS-107457 Co. Job#:   
 Sample Name: SVP18 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 5/19/2023 11:46 Date Received: 6/06/2023 Date Reported: 6/19/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.954			
Oxygen -----	20.79			
Nitrogen -----	77.66			
Carbon Dioxide -----	0.60			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0004			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.003

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. %.

Lab #: 874053 Job #: 54866 IS-107457 Co. Job#:   
 Sample Name: SVP24 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 5/19/2023 11:40 Date Received: 6/06/2023 Date Reported: 6/19/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.956			
Oxygen -----	21.06			
Nitrogen -----	77.67			
Carbon Dioxide -----	0.31			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0004			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.002

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. %.

Lab #: 874054 Job #: 54866 IS-107457 Co. Job#:   
 Sample Name: SVP21 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 5/19/2023 11:27 Date Received: 6/06/2023 Date Reported: 6/19/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.983			
Oxygen -----	16.94			
Nitrogen -----	79.91			
Carbon Dioxide -----	2.17			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0005			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.007

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. %.

Lab #: 874055 Job #: 54866 IS-107457 Co. Job#:   
 Sample Name: SVP22 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 5/19/2023 11:34 Date Received: 6/06/2023 Date Reported: 6/19/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.962			
Oxygen -----	19.21			
Nitrogen -----	78.39			
Carbon Dioxide -----	1.44			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0005			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.006

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. %.



Lab #: 890779 Job #: 56113 IS-107457 Co. Job#:   
 Sample Name: SVP22 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 9/14/2023 10:03 Date Received: 9/22/2023 Date Reported: 10/06/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	1.02			
Oxygen -----	19.55			
Nitrogen -----	77.47			
Carbon Dioxide -----	1.96			
Methane -----	0.0004			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0003			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.009

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. %.

Lab #: 890780 Job #: 56113 IS-107457 Co. Job#:   
 Sample Name: SVP21 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 9/14/2023 10:09 Date Received: 9/22/2023 Date Reported: 10/06/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	1.01			
Oxygen -----	20.21			
Nitrogen -----	77.86			
Carbon Dioxide -----	0.92			
Methane -----	0.0003			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0003			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.004

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. %.

Lab #: 890781 Job #: 56113 IS-107457 Co. Job#:   
 Sample Name: SVP06 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 9/14/2023 10:27 Date Received: 9/22/2023 Date Reported: 10/06/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	1.02			
Oxygen -----	20.53			
Nitrogen -----	78.13			
Carbon Dioxide -----	0.32			
Methane -----	0.0005			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0003			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.001

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. %.

Lab #: 890782 Job #: 56113 IS-107457 Co. Job#:   
 Sample Name: SVP13 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 9/14/2023 10:33 Date Received: 9/22/2023 Date Reported: 10/06/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	1.01			
Oxygen -----	20.06			
Nitrogen -----	77.69			
Carbon Dioxide -----	1.24			
Methane -----	0.0004			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0003			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.006

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. %.

Lab #: 890783 Job #: 56113 IS-107457 Co. Job#:   
 Sample Name: SVP15 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 9/14/2023 10:39 Date Received: 9/22/2023 Date Reported: 10/06/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	1.01			
Oxygen -----	19.01			
Nitrogen -----	77.48			
Carbon Dioxide -----	2.50			
Methane -----	0.0004			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0003			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.011

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. %.

Lab #: 890784 Job #: 56113 IS-107457 Co. Job#:   
 Sample Name: SVP26 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 9/14/2023 10:45 Date Received: 9/22/2023 Date Reported: 10/06/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	1.00			
Oxygen -----	17.65			
Nitrogen -----	76.96			
Carbon Dioxide -----	4.39			
Methane -----	0.0003			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0003			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.020

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. %.

Lab #: 890785 Job #: 56113 IS-107457 Co. Job#:   
 Sample Name: SVP27 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 9/14/2023 10:51 Date Received: 9/22/2023 Date Reported: 10/06/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	1.01			
Oxygen -----	19.13			
Nitrogen -----	77.38			
Carbon Dioxide -----	2.48			
Methane -----	0.0002			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0003			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.011

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. %.

Lab #: 890786 Job #: 56113 IS-107457 Co. Job#:   
 Sample Name: SVP11 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 9/14/2023 10:57 Date Received: 9/22/2023 Date Reported: 10/06/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.929			
Oxygen -----	18.51			
Nitrogen -----	77.56			
Carbon Dioxide -----	3.00			
Methane -----	0.0004			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0003			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.013

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. %.



Lab #: 890787 Job #: 56113 IS-107457 Co. Job#:   
 Sample Name: SVP07 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 9/14/2023 11:03 Date Received: 9/22/2023 Date Reported: 10/06/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	1.01			
Oxygen -----	20.13			
Nitrogen -----	77.73			
Carbon Dioxide -----	1.13			
Methane -----	0.0004			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.005

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. %.

Lab #: 890788 Job #: 56113 IS-107457 Co. Job#:   
 Sample Name: SVP30 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 9/14/2023 10:33 Date Received: 9/22/2023 Date Reported: 10/06/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	1.02			
Oxygen -----	19.20			
Nitrogen -----	77.79			
Carbon Dioxide -----	1.99			
Methane -----	0.0003			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.009

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. %.

Lab #: 890789 Job #: 56113 IS-107457 Co. Job#:   
 Sample Name: SVP01 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 9/14/2023 11:15 Date Received: 9/22/2023 Date Reported: 10/06/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.923			
Oxygen -----	20.45			
Nitrogen -----	78.50			
Carbon Dioxide -----	0.13			
Methane -----	0.0003			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.000

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. %.

Lab #: 890790 Job #: 56113 IS-107457 Co. Job#:   
 Sample Name: SVP20 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 9/14/2023 11:21 Date Received: 9/22/2023 Date Reported: 10/06/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.916			
Oxygen -----	19.53			
Nitrogen -----	77.60			
Carbon Dioxide -----	1.95			
Methane -----	0.0003			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0004			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.009

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. %.

Lab #: 890791 Job #: 56113 IS-107457 Co. Job#:   
 Sample Name: SVP23 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 9/14/2023 11:27 Date Received: 9/22/2023 Date Reported: 10/06/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.917			
Oxygen -----	19.12			
Nitrogen -----	77.75			
Carbon Dioxide -----	2.21			
Methane -----	0.0003			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0003			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.010

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. %.

Lab #: 890792 Job #: 56113 IS-107457 Co. Job#:   
 Sample Name: SVP04 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 9/14/2023 11:33 Date Received: 9/22/2023 Date Reported: 10/06/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.925			
Oxygen -----	20.19			
Nitrogen -----	78.26			
Carbon Dioxide -----	0.62			
Methane -----	0.0004			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.002

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. %.

Lab #: 890793 Job #: 56113 IS-107457 Co. Job#:   
 Sample Name: SVP02 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 9/14/2023 11:39 Date Received: 9/22/2023 Date Reported: 10/06/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.920			
Oxygen -----	19.17			
Nitrogen -----	77.62			
Carbon Dioxide -----	2.29			
Methane -----	0.0002			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0003			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.010

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. %.

Lab #: 890794 Job #: 56113 IS-107457 Co. Job#:   
 Sample Name: SVP28 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 9/14/2023 11:45 Date Received: 9/22/2023 Date Reported: 10/06/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.999			
Oxygen -----	20.55			
Nitrogen -----	78.11			
Carbon Dioxide -----	0.34			
Methane -----	0.0004			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0003			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.002

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. %.



Lab #: 890795 Job #: 56113 IS-107457 Co. Job#:   
 Sample Name: SVP24 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 9/14/2023 11:51 Date Received: 9/22/2023 Date Reported: 10/06/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.922			
Oxygen -----	19.10			
Nitrogen -----	77.80			
Carbon Dioxide -----	2.18			
Methane -----	0.0003			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.009

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. %.

Lab #: 890796 Job #: 56113 IS-107457 Co. Job#:   
 Sample Name: SVP18 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 9/14/2023 11:57 Date Received: 9/22/2023 Date Reported: 10/06/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.921			
Oxygen -----	19.04			
Nitrogen -----	77.65			
Carbon Dioxide -----	2.39			
Methane -----	0.0003			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0004			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.010

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. %.

Lab #: 890797 Job #: 56113 IS-107457 Co. Job#:   
 Sample Name: SVP17 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 9/14/2023 12:03 Date Received: 9/22/2023 Date Reported: 10/06/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.924			
Oxygen -----	20.17			
Nitrogen -----	78.23			
Carbon Dioxide -----	0.68			
Methane -----	0.0003			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.003

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. %.

Lab #: 890798 Job #: 56113 IS-107457 Co. Job#:   
 Sample Name: SVP16 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 9/14/2023 12:04 Date Received: 9/22/2023 Date Reported: 10/06/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.916			
Oxygen -----	18.98			
Nitrogen -----	77.67			
Carbon Dioxide -----	2.43			
Methane -----	0.0002			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0001			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.011

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. %.

Lab #: 890799 Job #: 56113 IS-107457 Co. Job#:   
 Sample Name: SVP09 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 9/14/2023 12:15 Date Received: 9/22/2023 Date Reported: 10/06/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.914			
Oxygen -----	18.78			
Nitrogen -----	77.24			
Carbon Dioxide -----	3.06			
Methane -----	0.0008			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0003			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.014

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. %.

Lab #: 890800 Job #: 56113 IS-107457 Co. Job#:   
 Sample Name: SVP10 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 9/14/2023 12:21 Date Received: 9/22/2023 Date Reported: 10/06/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.922			
Oxygen -----	19.38			
Nitrogen -----	77.76			
Carbon Dioxide -----	1.94			
Methane -----	0.0002			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.008

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. %.

Lab #: 890801 Job #: 56113 IS-107457 Co. Job#:   
 Sample Name: SVP08 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 9/14/2023 12:27 Date Received: 9/22/2023 Date Reported: 10/06/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.921			
Oxygen -----	19.41			
Nitrogen -----	77.76			
Carbon Dioxide -----	1.91			
Methane -----	0.0003			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.008

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. %.

Lab #: 910259 Job #: 57621 IS-69033 Co. Job#:   
 Sample Name: SVP-22 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 2/14/2024 10:01 Date Received: 2/19/2024 Date Reported: 2/23/2024

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.937			
Oxygen -----	20.60			
Nitrogen -----	77.91			
Carbon Dioxide -----	0.55			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.002

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. %.



Lab #: 910260 Job #: 57621 IS-69033 Co. Job#:   
 Sample Name: SVP-21 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 2/14/2024 10:09 Date Received: 2/19/2024 Date Reported: 2/23/2024

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.938			
Oxygen -----	20.63			
Nitrogen -----	78.01			
Carbon Dioxide -----	0.42			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0001			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.002

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. %.

Lab #: 910261 Job #: 57621 IS-69033 Co. Job#:   
 Sample Name: SVP-25 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 2/14/2024 10:21 Date Received: 2/19/2024 Date Reported: 2/23/2024

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.938			
Oxygen -----	20.51			
Nitrogen -----	77.95			
Carbon Dioxide -----	0.60			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.003

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. %.

Lab #: 910262 Job #: 57621 IS-69033 Co. Job#:   
 Sample Name: SVP-06 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 2/14/2024 10:27 Date Received: 2/19/2024 Date Reported: 2/23/2024

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.938			
Oxygen -----	20.94			
Nitrogen -----	77.90			
Carbon Dioxide -----	0.22			
Methane -----	0.0002			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.001

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. %.

Lab #: 910263 Job #: 57621 IS-69033 Co. Job#:   
 Sample Name: SVP-30 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 2/14/2024 10:33 Date Received: 2/19/2024 Date Reported: 2/23/2024

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.938			
Oxygen -----	20.83			
Nitrogen -----	77.91			
Carbon Dioxide -----	0.32			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0001			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.002

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. %.

Lab #: 910264 Job #: 57621 IS-69033 Co. Job#:   
 Sample Name: SVP-15 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 2/14/2024 10:39 Date Received: 2/19/2024 Date Reported: 2/23/2024

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.938			
Oxygen -----	20.69			
Nitrogen -----	77.90			
Carbon Dioxide -----	0.47			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.002

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. %.

Lab #: 910265 Job #: 57621 IS-69033 Co. Job#:   
 Sample Name: SVP-26 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 2/14/2024 10:45 Date Received: 2/19/2024 Date Reported: 2/23/2024

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.937			
Oxygen -----	20.48			
Nitrogen -----	77.79			
Carbon Dioxide -----	0.79			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.004

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. %.

Lab #: 910266 Job #: 57621 IS-69033 Co. Job#:   
 Sample Name: SVP-27 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 2/14/2024 10:51 Date Received: 2/19/2024 Date Reported: 2/23/2024

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.937			
Oxygen -----	20.56			
Nitrogen -----	77.80			
Carbon Dioxide -----	0.70			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0005			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.003

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. %.

Lab #: 910267 Job #: 57621 IS-69033 Co. Job#:   
 Sample Name: SVP-11 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 2/14/2024 11:01 Date Received: 2/19/2024 Date Reported: 2/23/2024

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.941			
Oxygen -----	20.71			
Nitrogen -----	77.92			
Carbon Dioxide -----	0.43			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.002

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. %.



Lab #: 910268 Job #: 57621 IS-69033 Co. Job#:   
 Sample Name: SVP-07 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 2/14/2024 11:07 Date Received: 2/19/2024 Date Reported: 2/23/2024

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.941			
Oxygen -----	20.80			
Nitrogen -----	77.89			
Carbon Dioxide -----	0.37			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.002

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. %.

Lab #: 910269 Job #: 57621 IS-69033 Co. Job#:   
 Sample Name: SVP-03 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 2/14/2024 11:13 Date Received: 2/19/2024 Date Reported: 2/23/2024

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.942			
Oxygen -----	20.58			
Nitrogen -----	77.93			
Carbon Dioxide -----	0.55			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0010			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.003

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. %.

Lab #: 910270 Job #: 57621 IS-69033 Co. Job#:   
 Sample Name: SVP-01 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 2/14/2024 11:19 Date Received: 2/19/2024 Date Reported: 2/23/2024

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.941			
Oxygen -----	20.76			
Nitrogen -----	77.98			
Carbon Dioxide -----	0.32			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.001

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. %.

Lab #: 910271 Job #: 57621 IS-69033 Co. Job#:   
 Sample Name: SVP-20 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 2/14/2024 11:25 Date Received: 2/19/2024 Date Reported: 2/23/2024

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.939			
Oxygen -----	20.77			
Nitrogen -----	77.83			
Carbon Dioxide -----	0.46			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.002

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. %.

Lab #: 910272 Job #: 57621 IS-69033 Co. Job#:   
 Sample Name: SVP-23 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 2/14/2024 11:31 Date Received: 2/19/2024 Date Reported: 2/23/2024

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.941			
Oxygen -----	20.86			
Nitrogen -----	77.87			
Carbon Dioxide -----	0.33			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.002

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. %.

Lab #: 910273 Job #: 57621 IS-69033 Co. Job#:   
 Sample Name: SVP-04 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 2/14/2024 11:37 Date Received: 2/19/2024 Date Reported: 2/23/2024

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.939			
Oxygen -----	20.78			
Nitrogen -----	77.64			
Carbon Dioxide -----	0.64			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0005			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.003

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. %.

Lab #: 910274 Job #: 57621 IS-69033 Co. Job#:   
 Sample Name: SVP-02 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 2/14/2024 11:43 Date Received: 2/19/2024 Date Reported: 2/23/2024

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.940			
Oxygen -----	20.70			
Nitrogen -----	77.84			
Carbon Dioxide -----	0.52			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0011			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.003

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. %.

Lab #: 910275 Job #: 57621 IS-69033 Co. Job#:   
 Sample Name: SVP-28 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 2/14/2024 11:45 Date Received: 2/19/2024 Date Reported: 2/23/2024

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.941			
Oxygen -----	21.02			
Nitrogen -----	77.86			
Carbon Dioxide -----	0.18			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.001

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. %.



Lab #: 910276 Job #: 57621 IS-69033 Co. Job#:   
 Sample Name: SVP-24 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 2/14/2024 11:51 Date Received: 2/19/2024 Date Reported: 2/23/2024

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.941			
Oxygen -----	20.70			
Nitrogen -----	77.90			
Carbon Dioxide -----	0.46			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0003			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.002

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. %.

Lab #: 910277 Job #: 57621 IS-69033 Co. Job#:  
Sample Name: SVP-18 Co. Lab#:  
Company: Oxy USA Inc.  
API/Well:  
Container: IsoTube®  
Field/Site Name: Cook Donald GU True 1  
Location:  
Formation:  
Sampling Point:  
Date Sampled: 2/14/2024 11:57 Date Received: 2/19/2024 Date Reported: 2/23/2024

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.941			
Oxygen -----	20.78			
Nitrogen -----	77.78			
Carbon Dioxide -----	0.50			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0009			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.003

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. %.

Lab #: 910278 Job #: 57621 IS-69033 Co. Job#:   
 Sample Name: SVP-17 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 2/14/2024 12:03 Date Received: 2/19/2024 Date Reported: 2/23/2024

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.943			
Oxygen -----	20.96			
Nitrogen -----	77.76			
Carbon Dioxide -----	0.34			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0003			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.002

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. %.

Lab #: 910279 Job #: 57621 IS-69033 Co. Job#:   
 Sample Name: SVP-16 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 2/14/2024 12:09 Date Received: 2/19/2024 Date Reported: 2/23/2024

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.942			
Oxygen -----	20.71			
Nitrogen -----	77.81			
Carbon Dioxide -----	0.54			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0003			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.003

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. %.

Lab #: 910280 Job #: 57621 IS-69033 Co. Job#:   
 Sample Name: SVP-09 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 2/14/2024 12:15 Date Received: 2/19/2024 Date Reported: 2/23/2024

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.940			
Oxygen -----	20.44			
Nitrogen -----	77.86			
Carbon Dioxide -----	0.76			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.003

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. %.

Lab #: 910281 Job #: 57621 IS-69033 Co. Job#:   
 Sample Name: SVP-08 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Cook Donald GU True 1   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 2/14/2024 12:27 Date Received: 2/19/2024 Date Reported: 2/23/2024

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.941			
Oxygen -----	20.81			
Nitrogen -----	77.83			
Carbon Dioxide -----	0.42			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.002

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. %.