

**TABLE 3**  
**SOIL VAPOR SCREENING FIELD DATA**  
**P VILLE FEDERAL 5-7 WELLHEAD**  
**KERR-MCGEE OIL GAS ONSHORE, LP**

Site ID	Type	Date	Sample Time	Sample Name	Sample Container	Lab	CH4 (%)	CO2 (%)	O2 (%)	H2S (PPM)	CO (PPM)	GEM	Comments
SVP01_30764	SVP	3/17/22	14:39				0.0	6.9	10.9	0	1		
SVP02_30764	SVP	3/17/22	14:42				0.0	9.5	5.4	0	1		
SVP03_30764	SVP	3/17/22	14:45				0.0	6.1	12.5	0	0		
SVP04_30764	SVP	3/17/22	14:18				0.0	6.5	10.9	0	1		
SVP05_30764	SVP	3/17/22	14:52				0.0	8.8	8.1	0	1		
SVP01_30764	SVP	4/7/22	8:13				0.0	7.9	10.2	0	0		
SVP02_30764	SVP	4/7/22	8:18				0.0	11.9	4.3	0	1		
SVP03_30764	SVP	4/7/22	8:21				0.0	7.6	10.6	0	0		
SVP04_30764	SVP	4/7/22	8:26				0.0	7.4	10.8	0	1		
SVP05_30764	SVP	4/7/22	8:29				0.0	10.0	7.6	0	0		
SVP06_30764	SVP	4/7/22	8:32				0.0	9.0	8.9	0	1		
SVP07_30764	SVP	4/7/22	8:41				0.0	7.1	11.2	0	1		
SVP08_30764	SVP	4/7/22	8:43				0.0	9.8	5.2	0	1		
SVP09_30764	SVP	4/7/22	8:46				0.0	5.3	15.2	0	1		
SVP010_30764	SVP	4/7/22	8:50				0.0	5.4	14.0	0	1		
SVP02	SVP	7/14/22	9:41	SVP02-0704-0941	Isotube	Isotech	0.0	5.4	12.1	0	0	5128	
SVP04	SVP	7/14/22	10:14	SVP04-0714-1014	Isotube	Isotech	0.0	7.5	5.0	0	1	5128	
SVP06	SVP	7/14/22	10:12	SVP06-0714-1012	Isotube	Isotech	0.0	5.7	8.0	0	1	5128	
SVP08	SVP	7/14/22	10:05	SVP08-0714-1005	Isotube	Isotech	0.0	13.8	3.8	0	1	5128	
SVP09	SVP	7/14/22	10:02	SVP09-0714-1002	Isotube	Isotech	0.0	5.9	9.7	0	1	5128	
SVP10	SVP	7/14/22	9:56	SVP10-0714-0956	Isotube	Isotech	0.4	14.2	12.4	1	1	5128	
SVP11	SVP	7/14/22	9:34	SVP11-0714-0934	Isotube	Isotech	0.0	12.1	2.7	0	0	5128	
SVP12	SVP	7/14/22	9:29	SVP12-0714-0929	Isotube	Isotech	0.0	14.0	2.8	0	1	5128	
SVP13	SVP	7/14/22	9:48	SVP13-0714-0948	Isotube	Isotech	7.3	7.4	7.1	0	3	5128	
SVP14	SVP	7/14/22	10:09	SVP14-0714-1009	Isotube	Isotech	0.0	14.6	2.1	1	2	5128	

**TABLE 4**  
**SOIL VAPOR LABORATORY ANALYTICAL RESULTS**  
**P VILLE FEDERAL 5-7 WELLHEAD**  
**KERR-MCGEE OIL GAS ONSHORE, LP**

Isotech Lab No.	Sample Name	Sample Date	Sample Time	Field Name	Location	GC Date	He %	H <sub>2</sub> %	Ar %	O <sub>2</sub> %	CO <sub>2</sub> %	N <sub>2</sub> %	CO %	C <sub>1</sub> %	C <sub>2</sub> %	C <sub>2</sub> H <sub>4</sub> %	C <sub>3</sub> %	C <sub>3</sub> H <sub>8</sub> %	iC <sub>4</sub> %	nC <sub>4</sub> %	iC <sub>5</sub> %	nC <sub>5</sub> %	C <sub>6</sub> + %	MS Date	δ <sup>13</sup> CO <sub>2</sub> ‰	Specific Gravity	BTU	Comments	
825741	SVP01_30764	4/7/2022	8:13	SG_P_Ville_Federal_5_7	SENW_7_3N_66W	4/20/2022			0.957	9.77	7.59	81.65	0.01	0.0228	0.0014		0.0007			0.0002	0.0003	0.0002	0.0003	0.0004			1.027		
825742	SVP02_30764	4/7/2022	8:18	SG_P_Ville_Federal_5_7	SENW_7_3N_66W	4/20/2022			0.978	3.72	12.05	83.24	0.01	0.0020	0.0003		0.0003		0.0002	0.0003	0.0002	0.0003	0.0008				1.043		
825743	SVP03_30764	4/7/2022	8:21	SG_P_Ville_Federal_5_7	SENW_7_3N_66W	4/20/2022			0.957	10.13	7.28	81.62	0.01	0.0006									0.0003				1.025		
825744	SVP04_30764	4/7/2022	8:26	SG_P_Ville_Federal_5_7	SENW_7_3N_66W	4/20/2022			0.958	10.27	7.13	81.63	0.01	0.0004									0.0003				1.025		
825745	SVP05_30764	4/7/2022	8:29	SG_P_Ville_Federal_5_7	SENW_7_3N_66W	4/20/2022			0.964	7.00	9.72	82.32		0.0002									0.0002				1.035		
825746	SVP06_30764	4/7/2022	8:32	SG_P_Ville_Federal_5_7	SENW_7_3N_66W	4/21/2022			0.963	8.30	8.83	81.89	0.01	0.0055													1.031		
825747	SVP07_30764	4/7/2022	8:41	SG_P_Ville_Federal_5_7	SENW_7_3N_66W	4/21/2022			0.937	10.30	6.93	82.10		0.0010													1.023		
825748	SVP08_30764	4/7/2022	8:43	SG_P_Ville_Federal_5_7	SENW_7_3N_66W	4/21/2022			0.991	4.63	9.46	84.92		0.0006									0.0001				1.030		
825749	SVP09_30764	4/7/2022	8:46	SG_P_Ville_Federal_5_7	SENW_7_3N_66W	4/21/2022			0.942	14.47	4.95	79.63	0.01	0.0004													1.018		
825750	SVP010_30764	4/7/2022	8:50	SG_P_Ville_Federal_5_7	SENW_7_3N_66W	4/21/2022			0.937	13.11	4.91	81.04		0.0002													1.016		
834992	SVP02-0714-0941	7/14/2022	9:41	Pville Federal 5-7 Wellhead	Weld County	7/28/2022			0.960	13.12	5.62	80.27		0.0313	0.0024		0.0004		0.0002								1.020	0	
834993	SVP04-0714-1014	7/14/2022	10:14	Pville Federal 5-7 Wellhead	Weld County	7/29/2022			1.03	3.79	9.17	86.01															1.027	0	
834994	SVP06-0714-1012	7/14/2022	10:12	Pville Federal 5-7 Wellhead	Weld County	7/29/2022			1.02	7.48	6.73	84.77															1.019	0	
834995	SVP08-0714-1005	7/14/2022	10:05	Pville Federal 5-7 Wellhead	Weld County	7/29/2022			0.964	2.84	15.56	80.64															1.061	0	
834996	SVP09-0714-1002	7/14/2022	10:02	Pville Federal 5-7 Wellhead	Weld County	7/29/2022			0.994	7.60	8.27	83.14															1.028	0	
834997	SVP10-0714-0956	7/14/2022	9:56	Pville Federal 5-7 Wellhead	Weld County	7/29/2022			0.985	10.80	6.39	81.82		0.0006									0.0001				1.021	0	
834998	SVP11-0714-0934	7/14/2022	9:34	Pville Federal 5-7 Wellhead	Weld County	7/29/2022			1.01	2.80	12.16	84.03															1.042	0	
834999	SVP12-0714-0929	7/14/2022	9:29	Pville Federal 5-7 Wellhead	Weld County	7/29/2022			0.983	2.65	14.35	82.02															1.054	0	
835000	SVP13-0714-0948	7/14/2022	9:48	Pville Federal 5-7 Wellhead	Weld County	7/29/2022			0.960	4.15	11.15	82.59		1.05	0.0001				0.0002	0.0018	0.0152	0.0076	0.0710			1.036	15		
835001	SVP14-0714-1009	7/14/2022	10:09	Pville Federal 5-7 Wellhead	Weld County	7/29/2022			0.969	1.26	16.26	81.51											0.0010				1.063	0	

Lab #: 825741 Job #: 50719 IS-69033 Co. Job#:   
 Sample Name: SVP01\_30764 Co. Lab#:   
 Company: Anadarko   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: SG\_P\_Ville\_Federal\_5\_7   
 Location: SENW\_7\_3N\_66W   
 Formation: SP   
 Sampling Point: 414497   
 Date Sampled: 4/07/2022 8:13 Date Received: 4/14/2022 Date Reported: 4/22/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	0.012			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.957			
Oxygen -----	9.77			
Nitrogen -----	81.65			
Carbon Dioxide -----	7.59			
Methane -----	0.0228			
Ethane -----	0.0014			
Ethylene -----	nd			
Propane -----	0.0007			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	0.0002			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0004			

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

Specific gravity, calculated: 1.027

Remarks: 4500641668

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 #: 825742 Job #: 50719 IS-69033 Co. Job#:   
 Sample Name: SVP02\_30764 Co. Lab#:   
 Company: Anadarko   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: SG\_P\_Ville\_Federal\_5\_7   
 Location: SENW\_7\_3N\_66W   
 Formation: SP   
 Sampling Point: 414497   
 Date Sampled: 4/07/2022 8:18 Date Received: 4/14/2022 Date Reported: 4/22/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	0.011			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.978			
Oxygen -----	3.72			
Nitrogen -----	83.24			
Carbon Dioxide -----	12.05			
Methane -----	0.0020			
Ethane -----	0.0003			
Ethylene -----	nd			
Propane -----	0.0003			
Propylene -----	nd			
Iso-butane -----	0.0002			
N-butane -----	0.0003			
Iso-pentane -----	0.0002			
N-pentane -----	0.0003			
Hexanes + -----	0.0008			

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

Specific gravity, calculated: 1.043

Remarks: 4500641668

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 #: 825743 Job #: 50719 IS-69033 Co. Job#:   
 Sample Name: SVP03\_30764 Co. Lab#:   
 Company: Anadarko   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: SG\_P\_Ville\_Federal\_5\_7   
 Location: SENW\_7\_3N\_66W   
 Formation: SP   
 Sampling Point: 414497   
 Date Sampled: 4/07/2022 8:21 Date Received: 4/14/2022 Date Reported: 4/22/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	0.011			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.957			
Oxygen -----	10.13			
Nitrogen -----	81.62			
Carbon Dioxide -----	7.28			
Methane -----	0.0006			
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: 1.025

Remarks: 4500641668

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 #: 825744 Job #: 50719 IS-69033 Co. Job#:   
 Sample Name: SVP04\_30764 Co. Lab#:   
 Company: Anadarko   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: SG\_P\_Ville\_Federal\_5\_7   
 Location: SENW\_7\_3N\_66W   
 Formation: SP   
 Sampling Point: 414497   
 Date Sampled: 4/07/2022 8:26 Date Received: 4/14/2022 Date Reported: 4/22/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	0.011			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.958			
Oxygen -----	10.27			
Nitrogen -----	81.63			
Carbon Dioxide -----	7.13			
Methane -----	0.0004			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0003			

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

Specific gravity, calculated: 1.025

Remarks: 4500641668

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 #: 825745 Job #: 50719 IS-69033 Co. Job#:   
 Sample Name: SVP05\_30764 Co. Lab#:   
 Company: Anadarko   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: SG\_P\_Ville\_Federal\_5\_7   
 Location: SENW\_7\_3N\_66W   
 Formation: SP   
 Sampling Point: 414497   
 Date Sampled: 4/07/2022 8:29 Date Received: 4/14/2022 Date Reported: 4/22/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.964			
Oxygen -----	7.00			
Nitrogen -----	82.32			
Carbon Dioxide -----	9.72			
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: 1.035

Remarks: 4500641668

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 #: 825746 Job #: 50719 IS-69033 Co. Job#:   
 Sample Name: SVP06\_30764 Co. Lab#:   
 Company: Anadarko   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: SG\_P\_Ville\_Federal\_5\_7   
 Location: SENW\_7\_3N\_66W   
 Formation: SP   
 Sampling Point: 414497   
 Date Sampled: 4/07/2022 8:32 Date Received: 4/14/2022 Date Reported: 4/22/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	0.011			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.963			
Oxygen -----	8.30			
Nitrogen -----	81.89			
Carbon Dioxide -----	8.83			
Methane -----	0.0055			
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: 1.031

Remarks: 4500641668

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 #: 825747 Job #: 50719 IS-69033 Co. Job#:   
 Sample Name: SVP07\_30764 Co. Lab#:   
 Company: Anadarko   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: SG\_P\_Ville\_Federal\_5\_7   
 Location: SENW\_7\_3N\_66W   
 Formation: SP   
 Sampling Point: 414497   
 Date Sampled: 4/07/2022 8:41 Date Received: 4/14/2022 Date Reported: 4/22/2022

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 -----	10.03			
Nitrogen -----	82.10			
Carbon Dioxide -----	6.93			
Methane -----	0.0010			
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: 1.023

Remarks: 4500641668

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 #: 825748 Job #: 50719 IS-69033 Co. Job#:   
 Sample Name: SVP08\_30764 Co. Lab#:   
 Company: Anadarko   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: SG\_P\_Ville\_Federal\_5\_7   
 Location: SENW\_7\_3N\_66W   
 Formation: SP   
 Sampling Point: 414497   
 Date Sampled: 4/07/2022 8:43 Date Received: 4/14/2022 Date Reported: 4/22/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.991			
Oxygen -----	4.63			
Nitrogen -----	84.92			
Carbon Dioxide -----	9.46			
Methane -----	0.0006			
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: 1.030

Remarks: 4500641668

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 #: 825749 Job #: 50719 IS-69033 Co. Job#:   
 Sample Name: SVP09\_30764 Co. Lab#:   
 Company: Anadarko   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: SG\_P\_Ville\_Federal\_5\_7   
 Location: SENW\_7\_3N\_66W   
 Formation: SP   
 Sampling Point: 414497   
 Date Sampled: 4/07/2022 8:46 Date Received: 4/14/2022 Date Reported: 4/22/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	0.012			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.942			
Oxygen -----	14.47			
Nitrogen -----	79.63			
Carbon Dioxide -----	4.95			
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: 1.018

Remarks: 4500641668

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 #: 825750 Job #: 50719 IS-69033 Co. Job#:   
 Sample Name: SVP10\_30764 Co. Lab#:   
 Company: Anadarko   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: SG\_P\_Ville\_Federal\_5\_7   
 Location: SENW\_7\_3N\_66W   
 Formation: SP   
 Sampling Point: 414497   
 Date Sampled: 4/07/2022 8:50 Date Received: 4/14/2022 Date Reported: 4/22/2022

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 -----	13.11			
Nitrogen -----	81.04			
Carbon Dioxide -----	4.91			
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: 1.016

Remarks: 4500641668

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 #: 834992 Job #: 51624 IS-107457 Co. Job#:   
 Sample Name: SVP02-0714-0941 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Pville Federal 5-7 Wellhead   
 Location: Weld County   
 Formation:   
 Sampling Point:   
 Date Sampled: 7/14/2022 9:41 Date Received: 7/19/2022 Date Reported: 8/02/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.960			
Oxygen -----	13.12			
Nitrogen -----	80.27			
Carbon Dioxide -----	5.62			
Methane -----	0.0313			
Ethane -----	0.0024			
Ethylene -----	nd			
Propane -----	0.0004			
Propylene -----	nd			
Iso-butane -----	0.0002			
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: 1.020

Remarks: PO 4500759787

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 #: 834993 Job #: 51624 IS-107457 Co. Job#:   
 Sample Name: SVP04-0714-1014 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Pville Federal 5-7 Wellhead   
 Location: Weld County   
 Formation:   
 Sampling Point:   
 Date Sampled: 7/14/2022 10:14 Date Received: 7/19/2022 Date Reported: 8/02/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	1.03			
Oxygen -----	3.79			
Nitrogen -----	86.01			
Carbon Dioxide -----	9.17			
Methane -----	nd			
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: 1.027

Remarks: PO 4500759787

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 #: 834994 Job #: 51624 IS-107457 Co. Job#:   
 Sample Name: SVP06-0714-1012 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Pville Federal 5-7 Wellhead   
 Location: Weld County   
 Formation:   
 Sampling Point:   
 Date Sampled: 7/14/2022 10:12 Date Received: 7/19/2022 Date Reported: 8/02/2022

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 -----	7.48			
Nitrogen -----	84.77			
Carbon Dioxide -----	6.73			
Methane -----	nd			
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: 1.019

Remarks: PO 4500759787

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 #: 834995 Job #: 51624 IS-107457 Co. Job#:   
 Sample Name: SVP08-0714-1005 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Pville Federal 5-7 Wellhead   
 Location: Weld County   
 Formation:   
 Sampling Point:   
 Date Sampled: 7/14/2022 10:05 Date Received: 7/19/2022 Date Reported: 8/02/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.964			
Oxygen -----	2.84			
Nitrogen -----	80.64			
Carbon Dioxide -----	15.56			
Methane -----	nd			
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: 1.061

Remarks: PO 4500759787

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 #: 834996 Job #: 51624 IS-107457 Co. Job#:   
 Sample Name: SVP09-0714-1002 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Pville Federal 5-7 Wellhead   
 Location: Weld County   
 Formation:   
 Sampling Point:   
 Date Sampled: 7/14/2022 10:02 Date Received: 7/19/2022 Date Reported: 8/02/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.994			
Oxygen -----	7.60			
Nitrogen -----	83.14			
Carbon Dioxide -----	8.27			
Methane -----	nd			
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: 1.028

Remarks: PO 4500759787

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 #: 834997 Job #: 51624 IS-107457 Co. Job#:   
 Sample Name: SVP10-0714-0956 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Pville Federal 5-7 Wellhead   
 Location: Weld County   
 Formation:   
 Sampling Point:   
 Date Sampled: 7/14/2022 9:56 Date Received: 7/19/2022 Date Reported: 8/02/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.985			
Oxygen -----	10.80			
Nitrogen -----	81.82			
Carbon Dioxide -----	6.39			
Methane -----	0.0006			
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: 1.021

Remarks: PO 4500759787

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 #: 834998 Job #: 51624 IS-107457 Co. Job#:   
 Sample Name: SVP11-0714-0934 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Pville Federal 5-7 Wellhead   
 Location: Weld County   
 Formation:   
 Sampling Point:   
 Date Sampled: 7/14/2022 9:34 Date Received: 7/19/2022 Date Reported: 8/02/2022

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 -----	2.80			
Nitrogen -----	84.03			
Carbon Dioxide -----	12.16			
Methane -----	nd			
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: 1.042

Remarks: PO 4500759787

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 #: 834999 Job #: 51624 IS-107457 Co. Job#:   
 Sample Name: SVP12-0714-0929 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Pville Federal 5-7 Wellhead   
 Location: Weld County   
 Formation:   
 Sampling Point:   
 Date Sampled: 7/14/2022 9:29 Date Received: 7/19/2022 Date Reported: 8/02/2022

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 -----	2.65			
Nitrogen -----	82.02			
Carbon Dioxide -----	14.35			
Methane -----	nd			
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: 1.054

Remarks: PO 4500759787

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 #: 835000 Job #: 51624 IS-107457 Co. Job#:  
Sample Name: SVP13-0714-0948 Co. Lab#:  
Company: Oxy USA Inc.  
API/Well:  
Container: IsoTube®  
Field/Site Name: Pville Federal 5-7 Wellhead  
Location: Weld County  
Formation:  
Sampling Point:  
Date Sampled: 7/14/2022 9:48 Date Received: 7/19/2022 Date Reported: 8/02/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.960			
Oxygen -----	4.15			
Nitrogen -----	82.59			
Carbon Dioxide -----	11.15			
Methane -----	1.05			
Ethane -----	0.0001			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	0.0002			
N-butane -----	0.0018			
Iso-pentane -----	0.0152			
N-pentane -----	0.0076			
Hexanes + -----	0.0710			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 15

Specific gravity, calculated: 1.036

Remarks: PO 4500759787

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 #: 835001 Job #: 51624 IS-107457 Co. Job#:   
 Sample Name: SVP14-0714-1009 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Pville Federal 5-7 Wellhead   
 Location: Weld County   
 Formation:   
 Sampling Point:   
 Date Sampled: 7/14/2022 10:09 Date Received: 7/19/2022 Date Reported: 8/02/2022

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 -----	1.26			
Nitrogen -----	81.51			
Carbon Dioxide -----	16.26			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0010			

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

Specific gravity, calculated: 1.063

Remarks: PO 4500759787

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. %.