

**TABLE 1A**  
**FOURTH QUARTER 2022 SOIL VAPOR SCREENING FIELD DATA**  
**P VILLE FEDERAL 5-7 WELLHEAD**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL AND GAS ONSHORE, LP**

Site ID	Type	Date	Sample Time	Sample Name	Sample Container	Lab	CH4 (%)	CO2 (%)	O2 (%)	H2S (PPM)	CO (PPM)	GEM	Comments
SVW01	SVW	11/9/22	10:09	SVW01-1109-1009	Isotube	Isotech	0.0	5.2	16.0	0	0	5128	
SVW02	SVW	11/9/22	10:37	SVW02-1109-1037	Isotube	Isotech	0.0	7.4	12.6	0	0	5128	
SVW03	SVW	11/9/22	11:15	SVW03-1109-1115	Isotube	Isotech	0.1	11.5	6.1	0	0	5128	
SVW04	SVW	11/9/22	10:49	SVW04-1109-1049	Isotube	Isotech	0.0	8.8	10.6	0	0	5128	
SVW05	SVW	11/9/22	11:29	SVW05-1109-1129	Isotube	Isotech	0.0	8.7	10.2	0	1	5128	
SVW06	SVW	11/9/22	11:37	SVW06-1109-1137	Isotube	Isotech	0.0	7.3	12.6	0	1	5128	
SVW07	SVW	11/9/22	12:03	SVW07-1109-1203	Isotube	Isotech	0.0	7.4	12.3	0	1	5128	
SVW08	SVW	11/9/22	12:09	SVW08-1109-1209	Isotube	Isotech	0.0	9.2	9.3	0	0	5128	
SVW09	SVW	11/9/22	12:16	SVW09-1109-1216	Isotube	Isotech	0.0	11.6	5.1	0	0	5128	
SVW10	SVW	11/9/22	12:33	SVW10-1109-1233	Isotube	Isotech	0.2	13.6	0.0	0	1	5128	Methane dropped from 0.3% @ 135 sec
SVW11	SVW	11/9/22	10:24	SVW11-1109-1024	Isotube	Isotech	0.0	11.4	7.5	0	0	5128	
SVW12	SVW	11/9/22	9:49	SVW12-1109-0949	Isotube	Isotech	0.1	11.7	6.6	0	0	5128	
SVW13	SVW	11/9/22	10:03	SVW13-1109-1003	Isotube	Isotech	0.0	4.2	17.2	0	1	5128	
SVW14	SVW	11/9/22	11:44	SVW14-1109-1144	Isotube	Isotech	0.1	3.8	16.7	0	1	5128	Methane 0.2% @ 28 sec
SVW15	SVW	11/9/22	11:22	SVW15-1109-1122	Isotube	Isotech	0.0	11.4	6.4	0	0	5128	
SVW16	SVW	11/9/22	11:51	SVW16-1109-1151	Isotube	Isotech	0.0	12.6	4.1	0	1	5128	
SVW17	SVW	11/9/22	10:43	SVW17-1109-1043	Isotube	Isotech	0.0	10.8	8.5	0	0	5128	
SVW18	SVW	11/9/22	10:31	SVW18-1109-1031	Isotube	Isotech	0.0	8.1	12.3	0	0	5128	
SVW19	SVW	11/9/22	9:36	SVW19-1109-0936	Isotube	Isotech	0.0	10.5	6.4	0	0	5128	
SVW20	SVW	11/9/22	9:44	SVW20-1109-0944	Isotube	Isotech	0.0	5.8	14.5	0	0	5128	
SVW21	SVW	11/9/22	9:56	SVW21-1109-0956	Isotube	Isotech	0.0	6.7	14.1	0	0	5128	
SVW22	SVW	11/9/22	10:18	SVW22-1109-1018	Isotube	Isotech	0.0	7.0	13.4	0	0	5128	
SVW23	SVW	11/9/22	10:56	SVW23-1109-1056	Isotube	Isotech	0.0	9.5	9.5	0	0	5128	
SVW24	SVW	11/9/22	12:49	SVW24-1109-1249	Isotube	Isotech	0.0	13.7	0.4	0	0	5128	
SVW25	SVW	11/9/22	--	--	--	--	--	--	--	--	--	--	Could not locate - under water
SVW26	SVW	11/9/22	12:24	SVW26-1109-1224	Isotube	Isotech	0.0	9.4	8.0	0	0	5128	
SVW27	SVW	11/9/22	11:54	SVW27-1109-1154	Isotube	Isotech	0.4	5.1	14.3	0	0	5128	Methane 0.5% @ 25 sec

**TABLE 1B**  
**HISTORICAL SOIL VAPOR SCREENING FIELD DATA**  
**P VILLE FEDERAL 5-7 WELLHEAD**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL AND 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	
SVW01	SVW	11/9/22	10:09	SVW01-1109-1009	Isotube	Isotech	0.0	5.2	16.0	0	0	5128	
SVW02	SVW	11/9/22	10:37	SVW02-1109-1037	Isotube	Isotech	0.0	7.4	12.6	0	0	5128	
SVW03	SVW	11/9/22	11:15	SVW03-1109-1115	Isotube	Isotech	0.1	11.5	6.1	0	0	5128	
SVW04	SVW	11/9/22	10:49	SVW04-1109-1049	Isotube	Isotech	0.0	8.8	10.6	0	0	5128	
SVW05	SVW	11/9/22	11:29	SVW05-1109-1129	Isotube	Isotech	0.0	8.7	10.2	0	1	5128	
SVW06	SVW	11/9/22	11:37	SVW06-1109-1137	Isotube	Isotech	0.0	7.3	12.6	0	1	5128	
SVW07	SVW	11/9/22	12:03	SVW07-1109-1203	Isotube	Isotech	0.0	7.4	12.3	0	1	5128	
SVW08	SVW	11/9/22	12:09	SVW08-1109-1209	Isotube	Isotech	0.0	9.2	9.3	0	0	5128	
SVW09	SVW	11/9/22	12:16	SVW09-1109-1216	Isotube	Isotech	0.0	11.6	5.1	0	0	5128	
SVW10	SVW	11/9/22	12:33	SVW10-1109-1233	Isotube	Isotech	0.2	13.6	0.0	0	1	5128	Methane dropped from 0.3% @ 135 sec
SVW11	SVW	11/9/22	10:24	SVW11-1109-1024	Isotube	Isotech	0.0	11.4	7.5	0	0	5128	
SVW12	SVW	11/9/22	9:49	SVW12-1109-0949	Isotube	Isotech	0.1	11.7	6.6	0	0	5128	
SVW13	SVW	11/9/22	10:03	SVW13-1109-1003	Isotube	Isotech	0.0	4.2	17.2	0	1	5128	
SVW14	SVW	11/9/22	11:44	SVW14-1109-1144	Isotube	Isotech	0.1	3.8	16.7	0	1	5128	Methane 0.2% @ 28 sec
SVW15	SVW	11/9/22	11:22	SVW15-1109-1122	Isotube	Isotech	0.0	11.4	6.4	0	0	5128	
SVW16	SVW	11/9/22	11:51	SVW16-1109-1151	Isotube	Isotech	0.0	12.6	4.1	0	1	5128	
SVW17	SVW	11/9/22	10:43	SVW17-1109-1043	Isotube	Isotech	0.0	10.8	8.5	0	0	5128	
SVW18	SVW	11/9/22	10:31	SVW18-1109-1031	Isotube	Isotech	0.0	8.1	12.3	0	0	5128	
SVW19	SVW	11/9/22	9:36	SVW19-1109-0936	Isotube	Isotech	0.0	10.5	6.4	0	0	5128	
SVW20	SVW	11/9/22	9:44	SVW20-1109-0944	Isotube	Isotech	0.0	5.8	14.5	0	0	5128	
SVW21	SVW	11/9/22	9:56	SVW21-1109-0956	Isotube	Isotech	0.0	6.7	14.1	0	0	5128	
SVW22	SVW	11/9/22	10:18	SVW22-1109-1018	Isotube	Isotech	0.0	7.0	13.4	0	0	5128	
SVW23	SVW	11/9/22	10:56	SVW23-1109-1056	Isotube	Isotech	0.0	9.5	9.5	0	0	5128	
SVW24	SVW	11/9/22	12:49	SVW24-1109-1249	Isotube	Isotech	0.0	13.7	0.4	0	0	5128	
SVW25	SVW	11/9/22	--	--	--	--	--	--	--	--	--	--	Could not locate - under water
SVW26	SVW	11/9/22	12:24	SVW26-1109-1224	Isotube	Isotech	0.0	9.4	8.0	0	0	5128	
SVW27	SVW	11/9/22	11:54	SVW27-1109-1154	Isotube	Isotech	0.4	5.1	14.3	0	0	5128	Methane 0.5% @ 25 sec

TABLE 2A  
FOURTH QUARTER 2022 SOIL VAPOR LABORATORY ANALYTICAL RESULTS  
P VILLE FEDERAL 5-7 WELLHEAD  
WELD COUNTY, COLORADO  
KERR-MCGEE OIL GAS ONSHORE, LP

Isotech	Sample	Sample	Sample	Field	Location	GC	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>6</sub>	iC <sub>4</sub>	nC <sub>4</sub>	iC <sub>5</sub>	nC <sub>5</sub>	C <sub>6</sub> +	MS	d <sup>13</sup> CO <sub>2</sub>	Specific	BTU	Comments
Lab No.	Name	Date	Time	Name		Date	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	Date	‰	Gravity		
849895	SVW01-1109-1009	11/9/2022	10:09	PVille Federal 5-7 Wellhead	Weld County	11/22/2022			0.924	15.86	4.54	78.68											0.0001	12/14/2022	-17.84	1.018	0	
849896	SVW02-1109-1037	11/9/2022	10:37	PVille Federal 5-7 Wellhead	Weld County	11/22/2022			0.915	12.75	6.46	79.88														1.024	0	
849897	SVW03-1109-1115	11/9/2022	11:15	PVille Federal 5-7 Wellhead	Weld County	11/22/2022			0.981	6.40	10.77	81.85														1.040	0	
849898	SVW04-1109-1049	11/9/2022	10:49	PVille Federal 5-7 Wellhead	Weld County	11/22/2022			0.951	10.09	8.23	80.73											0.0001			1.031	0	
849899	SVW05-1109-1129	11/9/2022	11:29	PVille Federal 5-7 Wellhead	Weld County	11/22/2022			0.948	10.12	8.36	80.57														1.031	0	
849900	SVW06-1109-1137	11/9/2022	11:37	PVille Federal 5-7 Wellhead	Weld County	11/22/2022			0.915	12.98	6.36	79.75												12/14/2022	-19.01	1.024	0	
849901	SVW07-1109-1203	11/9/2022	12:03	PVille Federal 5-7 Wellhead	Weld County	11/22/2022			0.913	12.61	6.57	79.91											0.0001			1.025	0	
849902	SVW08-1109-1209	11/9/2022	12:09	PVille Federal 5-7 Wellhead	Weld County	11/22/2022			0.955	9.60	8.34	81.11														1.030	0	
849903	SVW09-1109-1216	11/9/2022	12:16	PVille Federal 5-7 Wellhead	Weld County	11/23/2022			0.981	5.39	10.83	82.80												12/14/2022	-23.57	1.039	0	
849904	SVW10-1109-1233	11/9/2022	12:33	PVille Federal 5-7 Wellhead	Weld County	11/23/2022			1.03	0.13	12.92	85.77		0.141	0.0096		0.0001		0.0002					12/14/2022	-24.35	1.042	2	
849905	SVW11-1109-1024	11/9/2022	10:24	PVille Federal 5-7 Wellhead	Weld County	11/23/2022			0.942	7.82	10.51	80.73														1.040	0	
849906	SVW12-1109-0949	11/9/2022	9:49	PVille Federal 5-7 Wellhead	Weld County	11/23/2022			0.972	6.79	10.72	81.52														1.040	0	
849907	SVW13-1109-1003	11/9/2022	10:03	PVille Federal 5-7 Wellhead	Weld County	11/23/2022			0.866	17.16	3.67	78.30												12/15/2022	-16.93	1.015	0	
849908	SVW14-1109-1144	11/9/2022	11:44	PVille Federal 5-7 Wellhead	Weld County	11/23/2022			0.873	19.25	1.87	77.97		0.0415										12/15/2022	-22.23	1.008	0	
849909	SVW15-1109-1122	11/9/2022	11:22	PVille Federal 5-7 Wellhead	Weld County	11/23/2022			0.977	6.82	10.66	81.54														1.039	0	
849910	SVW16-1109-1151	11/9/2022	11:51	PVille Federal 5-7 Wellhead	Weld County	11/23/2022			0.983	4.37	11.86	82.79												12/14/2022	-23.70	1.043	0	
849911	SVW17-1109-1043	11/9/2022	10:43	PVille Federal 5-7 Wellhead	Weld County	11/23/2022			0.940	8.72	9.73	80.61												12/14/2022	-21.46	1.037	0	
849912	SVW18-1109-1031	11/9/2022	10:31	PVille Federal 5-7 Wellhead	Weld County	11/23/2022			0.906	12.47	7.12	79.50												12/14/2022	-19.92	1.027	0	
849913	SVW19-1109-0936	11/9/2022	9:36	PVille Federal 5-7 Wellhead	Weld County	11/28/2022			0.983	6.54	9.60	82.88														1.033	0	
849914	SVW20-1109-0944	11/9/2022	9:44	PVille Federal 5-7 Wellhead	Weld County	11/28/2022			0.918	14.22	5.11	79.67	0.080													1.019	0	
849915	SVW21-1109-0956	11/9/2022	9:56	PVille Federal 5-7 Wellhead	Weld County	11/28/2022			0.912	13.93	5.85	79.31														1.022	0	
849916	SVW22-1109-1018	11/9/2022	10:18	PVille Federal 5-7 Wellhead	Weld County	11/28/2022			0.905	13.69	6.18	79.23														1.024	0	
849917	SVW23-1109-1056	11/9/2022	10:56	PVille Federal 5-7 Wellhead	Weld County	11/28/2022			0.955	9.58	8.59	80.88														1.032	0	
849918	SVW24-1109-1249	11/9/2022	12:49	PVille Federal 5-7 Wellhead	Weld County	11/28/2022			1.02	0.70	13.31	84.97												12/14/2022	-23.25	1.046	0	
849919	SVW26-1109-1224	11/9/2022	12:24	PVille Federal 5-7 Wellhead	Weld County	11/28/2022			0.968	7.07	9.23	82.73												12/15/2022	-21.59	1.032	0	
849920	SVW27-1109-1154	11/9/2022	11:54	PVille Federal 5-7 Wellhead	Weld County	11/28/2022			0.903	14.96	4.30	79.81		0.0139	0.0019		0.0043		0.0010	0.0014	0.0004	0.0003	0.0001	12/15/2022	-25.17	1.015	0	

TABLE 2B  
HISTORICAL SOIL VAPOR LABORATORY ANALYTICAL RESULTS  
P VILLE FEDERAL 5-7 WELLHEAD  
WELD COUNTY, COLORADO  
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>6</sub> %	iC <sub>4</sub> %	nC <sub>4</sub> %	iC <sub>5</sub> %	nC <sub>5</sub> %	C <sub>6</sub> + %	MS Date	d <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	SENNW_7_3N_66W	4/20/2022			0.957	9.77	7.59	81.65	0.01	0.0228	0.0014		0.0007				0.0002			0.0004			1.027		
825742	SVP02_30764	4/7/2022	8:18	SG P Ville Federal 5 7	SENNW_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	SENNW_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	SENNW_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	SENNW_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	SENNW_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	SENNW_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	SENNW_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	SENNW_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	SENNW_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					8/11/2022	-25.73	1.020		
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													8/11/2022	-24.02	1.027		
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													8/11/2022	-21.49	1.019		
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													8/15/2022	-22.06	1.061		
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													8/15/2022	-19.71	1.028		
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	8/15/2022	-20.73	1.021		
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													8/15/2022	-23.77	1.042		
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													8/15/2022	-24.35	1.054		
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	8/15/2022	-20.20	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	8/15/2022	-21.10	1.063		
849895	SVW01-1109-1009	11/9/2022	10:09	PVille Federal 5-7 Wellhead	Weld County	11/22/2022			0.924	15.86	4.54	78.68												0.0001	12/14/2022	-17.84	1.018	0	
849896	SVW02-1109-1037	11/9/2022	10:37	PVille Federal 5-7 Wellhead	Weld County	11/22/2022			0.915	12.75	6.46	79.88															1.024	0	
849897	SVW03-1109-1115	11/9/2022	11:15	PVille Federal 5-7 Wellhead	Weld County	11/22/2022			0.981	6.40	10.77	81.85															1.040	0	
849898	SVW04-1109-1049	11/9/2022	10:49	PVille Federal 5-7 Wellhead	Weld County	11/22/2022			0.951	10.09	8.23	80.73											0.0001				1.031	0	
849899	SVW05-1109-1129	11/9/2022	11:29	PVille Federal 5-7 Wellhead	Weld County	11/22/2022			0.948	10.12	8.36	80.57															1.031	0	
849900	SVW06-1109-1137	11/9/2022	11:37	PVille Federal 5-7 Wellhead	Weld County	11/22/2022			0.915	12.98	6.36	79.75													12/14/2022	-19.01	1.024	0	
849901	SVW07-1109-1203	11/9/2022	12:03	PVille Federal 5-7 Wellhead	Weld County	11/22/2022			0.913	12.61	6.57	79.91											0.0001				1.025	0	
849902	SVW08-1109-1209	11/9/2022	12:09	PVille Federal 5-7 Wellhead	Weld County	11/22/2022			0.955	9.60	8.34	81.11															1.030	0	
849903	SVW09-1109-1216	11/9/2022	12:16	PVille Federal 5-7 Wellhead	Weld County	11/23/2022			0.981	5.39	10.83	82.80													12/14/2022	-23.57	1.039	0	
849904	SVW10-1109-1233	11/9/2022	12:33	PVille Federal 5-7 Wellhead	Weld County	11/23/2022			1.03	0.13	12.92	85.77		0.141	0.0096		0.0001			0.0002					12/14/2022	-24.35	1.042	2	
849905	SVW11-1109-1024	11/9/2022	10:24	PVille Federal 5-7 Wellhead	Weld County	11/23/2022			0.942	7.82	10.51	80.73															1.040	0	
849906	SVW12-1109-0949	11/9/2022	9:49	PVille Federal 5-7 Wellhead	Weld County	11/23/2022			0.972	6.79	10.72	81.52															1.040	0	
849907	SVW13-1109-1003	11/9/2022	10:03	PVille Federal 5-7 Wellhead	Weld County	11/23/2022			0.866	17.16	3.67	78.30													12/15/2022	-16.93	1.015	0	
849908	SVW14-1109-1144	11/9/2022	11:44	PVille Federal 5-7 Wellhead	Weld County	11/23/2022			0.873	19.25	1.87	77.97		0.0415											12/15/2022	-22.23	1.008	0	
849909	SVW15-1109-1122	11/9/2022	11:22	PVille Federal 5-7 Wellhead	Weld County	11/23/2022			0.977	6.82	10.66	81.54															1.039	0	
849910	SVW16-1109-1151	11/9/2022	11:51	PVille Federal 5-7 Wellhead	Weld County	11/23/2022			0.983	4.37	11.86	82.79													12/14/2022	-23.70	1.043	0	
849911	SVW17-1109-1043	11/9/2022	10:43	PVille Federal 5-7 Wellhead	Weld County	11/23/2022			0.940	8.72	9.73	80.61													12/14/2022	-21.46	1.037	0	
849912	SVW18-1109-1031	11/9/2022	10:31	PVille Federal 5-7 Wellhead	Weld County	11/23/2022			0.906	12.47	7.12	79.50													12/14/2022	-19.92	1.027	0	
849913	SVW19-1109-0936	11/9/2022	9:36	PVille Federal 5-7 Wellhead	Weld County	11/28/2022			0.983	6.54	9.60	82.88															1.033	0	
849914	SVW20-1109-0944	11/9/2022	9:44	PVille Federal 5-7 Wellhead	Weld County	11/28/2022			0.918	14.22	5.11	79.67	0.080														1.019	0	
849915	SVW21-1109-0956	11/9/2022	9:56	PVille Federal 5-7 Wellhead	Weld County	11/28/2022			0.912	13.93	5.85	79.31															1.022	0	
849916	SVW22-1109-1018	11/9/2022	10:18	PVille Federal 5-7 Wellhead	Weld County	11/28/2022			0.905	13.69	6.18	79.23															1.024	0	
849917	SVW23-1109-1056	11/9/2022	10:56	PVille Federal 5-7 Wellhead	Weld County	11/28/2022			0.955	9.58	8.59	80.88															1.032	0	
849918	SVW24-1109-1249	11/9/2022	12:49	PVille Federal 5-7 Wellhead	Weld																								

Lab #: 849895 Job #: 52809 IS-107457 Co. Job#:   
 Sample Name: SVW01-1109-1009 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: 11/09/2022 10:09 Date Received: 11/17/2022 Date Reported: 12/19/2022

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 -----	15.86			
Nitrogen -----	78.68			
Carbon Dioxide -----	4.54	-17.84		
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0001			

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

Specific gravity, calculated: 1.018

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

Lab #: 849896 Job #: 52809 IS-107457 Co. Job#:   
 Sample Name: SVW02-1109-1037 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: 11/09/2022 10:37 Date Received: 11/17/2022 Date Reported: 12/19/2022

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 -----	12.75			
Nitrogen -----	79.88			
Carbon Dioxide -----	6.46			
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: 1.024

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

Lab #: 849897 Job #: 52809 IS-107457 Co. Job#:   
 Sample Name: SVW03-1109-1115 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: 11/09/2022 11:15 Date Received: 11/17/2022 Date Reported: 12/19/2022

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 -----	6.40			
Nitrogen -----	81.85			
Carbon Dioxide -----	10.77			
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: 1.040

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



Lab #: 849898 Job #: 52809 IS-107457 Co. Job#:   
 Sample Name: SVW04-1109-1049 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: 11/09/2022 10:49 Date Received: 11/17/2022 Date Reported: 12/19/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.951			
Oxygen -----	10.09			
Nitrogen -----	80.73			
Carbon Dioxide -----	8.23			
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: 1.031

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



Lab #: 849899 Job #: 52809 IS-107457 Co. Job#:   
 Sample Name: SVW05-1109-1129 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: 11/09/2022 11:29 Date Received: 11/17/2022 Date Reported: 12/19/2022

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 -----	10.12			
Nitrogen -----	80.57			
Carbon Dioxide -----	8.36			
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: 1.031

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

Lab #: 849900 Job #: 52809 IS-107457 Co. Job#:   
 Sample Name: SVW06-1109-1137 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: 11/09/2022 11:37 Date Received: 11/17/2022 Date Reported: 12/19/2022

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 -----	12.98			
Nitrogen -----	79.75			
Carbon Dioxide -----	6.36	-19.01		
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: 1.024

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

Lab #: 849901 Job #: 52809 IS-107457 Co. Job#:   
 Sample Name: SVW07-1109-1203 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: 11/09/2022 12:03 Date Received: 11/17/2022 Date Reported: 12/19/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.913			
Oxygen -----	12.61			
Nitrogen -----	79.91			
Carbon Dioxide -----	6.57			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0001			

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

Specific gravity, calculated: 1.025

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

Lab #: 849902 Job #: 52809 IS-107457 Co. Job#:   
 Sample Name: SVW08-1109-1209 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: 11/09/2022 12:09 Date Received: 11/17/2022 Date Reported: 12/19/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.955			
Oxygen -----	9.60			
Nitrogen -----	81.11			
Carbon Dioxide -----	8.34			
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: 1.030

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

Lab #: 849903 Job #: 52809 IS-107457 Co. Job#:   
 Sample Name: SVW09-1109-1216 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: 11/09/2022 12:16 Date Received: 11/17/2022 Date Reported: 12/19/2022

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 -----	5.39			
Nitrogen -----	82.80			
Carbon Dioxide -----	10.83	-23.57		
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: 1.039

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

Lab #: 849904 Job #: 52809 IS-107457 Co. Job#:   
 Sample Name: SVW10-1109-1233 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: 11/09/2022 12:33 Date Received: 11/17/2022 Date Reported: 12/19/2022

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 -----	0.13			
Nitrogen -----	85.77			
Carbon Dioxide -----	12.92	-24.35		
Methane -----	0.141			
Ethane -----	0.0096			
Ethylene -----	nd			
Propane -----	0.0001			
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: 2

Specific gravity, calculated: 1.042

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

Lab #: 849905 Job #: 52809 IS-107457 Co. Job#:   
 Sample Name: SVW11-1109-1024 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: 11/09/2022 10:24 Date Received: 11/17/2022 Date Reported: 12/19/2022

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 -----	7.82			
Nitrogen -----	80.73			
Carbon Dioxide -----	10.51			
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: 1.040

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



Lab #: 849906 Job #: 52809 IS-107457 Co. Job#:   
 Sample Name: SVW12-1109-0949 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: 11/09/2022 9:49 Date Received: 11/17/2022 Date Reported: 12/19/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.972			
Oxygen -----	6.79			
Nitrogen -----	81.52			
Carbon Dioxide -----	10.72			
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: 1.040

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

Lab #: 849907 Job #: 52809 IS-107457 Co. Job#:   
 Sample Name: SVW13-1109-1003 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: 11/09/2022 10:03 Date Received: 11/17/2022 Date Reported: 12/19/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.866			
Oxygen -----	17.16			
Nitrogen -----	78.30			
Carbon Dioxide -----	3.67	-16.93		
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: 1.015

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

Lab #: 849908 Job #: 52809 IS-107457 Co. Job#:   
 Sample Name: SVW14-1109-1144 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: 11/09/2022 11:44 Date Received: 11/17/2022 Date Reported: 12/19/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.873			
Oxygen -----	19.25			
Nitrogen -----	77.97			
Carbon Dioxide -----	1.87	-22.23		
Methane -----	0.0415			
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: 1.008

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

Lab #: 849909 Job #: 52809 IS-107457 Co. Job#:   
 Sample Name: SVW15-1109-1122 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: 11/09/2022 11:22 Date Received: 11/17/2022 Date Reported: 12/19/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.977			
Oxygen -----	6.82			
Nitrogen -----	81.54			
Carbon Dioxide -----	10.66			
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: 1.039

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

Lab #: 849910 Job #: 52809 IS-107457 Co. Job#:   
 Sample Name: SVW16-1109-1151 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: 11/09/2022 11:51 Date Received: 11/17/2022 Date Reported: 12/19/2022

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 -----	4.37			
Nitrogen -----	82.79			
Carbon Dioxide -----	11.86	-23.70		
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: 1.043

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

Lab #: 849911 Job #: 52809 IS-107457 Co. Job#:   
 Sample Name: SVW17-1109-1043 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: 11/09/2022 10:43 Date Received: 11/17/2022 Date Reported: 12/19/2022

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 -----	8.72			
Nitrogen -----	80.61			
Carbon Dioxide -----	9.73	-21.46		
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: 1.037

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

Lab #: 849912 Job #: 52809 IS-107457 Co. Job#:   
 Sample Name: SVW18-1109-1031 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: 11/09/2022 10:31 Date Received: 11/17/2022 Date Reported: 12/19/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.906			
Oxygen -----	12.47			
Nitrogen -----	79.50			
Carbon Dioxide -----	7.12	-19.92		
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

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



Lab #: 849913 Job #: 52809 IS-107457 Co. Job#:   
 Sample Name: SVW19-1109-0936 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: 11/09/2022 9:36 Date Received: 11/17/2022 Date Reported: 12/19/2022

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 -----	6.54			
Nitrogen -----	82.88			
Carbon Dioxide -----	9.60			
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: 1.033

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

Lab #: 849914 Job #: 52809 IS-107457 Co. Job#:   
 Sample Name: SVW20-1109-0944 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: 11/09/2022 9:44 Date Received: 11/17/2022 Date Reported: 12/19/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	0.080			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.918			
Oxygen -----	14.22			
Nitrogen -----	79.67			
Carbon Dioxide -----	5.11			
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

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

Lab #: 849915 Job #: 52809 IS-107457 Co. Job#:   
 Sample Name: SVW21-1109-0956 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: 11/09/2022 9:56 Date Received: 11/17/2022 Date Reported: 12/19/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.912			
Oxygen -----	13.93			
Nitrogen -----	79.31			
Carbon Dioxide -----	5.85			
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: 1.022

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

Lab #: 849916 Job #: 52809 IS-107457 Co. Job#:   
 Sample Name: SVW22-1109-1018 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: 11/09/2022 10:18 Date Received: 11/17/2022 Date Reported: 12/19/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.905			
Oxygen -----	13.69			
Nitrogen -----	79.23			
Carbon Dioxide -----	6.18			
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: 1.024

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

Lab #: 849917 Job #: 52809 IS-107457 Co. Job#:   
 Sample Name: SVW23-1109-1056 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: 11/09/2022 10:56 Date Received: 11/17/2022 Date Reported: 12/19/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.955			
Oxygen -----	9.58			
Nitrogen -----	80.88			
Carbon Dioxide -----	8.59			
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: 1.032

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

Lab #: 849918 Job #: 52809 IS-107457 Co. Job#:   
 Sample Name: SVW24-1109-1249 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: 11/09/2022 12:49 Date Received: 11/17/2022 Date Reported: 12/19/2022

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 -----	0.70			
Nitrogen -----	84.97			
Carbon Dioxide -----	13.31	-23.25		
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: 1.046

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

Lab #: 849919 Job #: 52809 IS-107457 Co. Job#:   
 Sample Name: SVW26-1109-1224 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: 11/09/2022 12:24 Date Received: 11/17/2022 Date Reported: 12/19/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.968			
Oxygen -----	7.07			
Nitrogen -----	82.73			
Carbon Dioxide -----	9.23	-21.59		
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: 1.032

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



Lab #: 849920 Job #: 52809 IS-107457 Co. Job#:   
 Sample Name: SVW27-1109-1154 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: 11/09/2022 11:54 Date Received: 11/17/2022 Date Reported: 12/19/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.903			
Oxygen -----	14.96			
Nitrogen -----	79.81			
Carbon Dioxide -----	4.30	-25.17		
Methane -----	0.0139			
Ethane -----	0.0019			
Ethylene -----	nd			
Propane -----	0.0043			
Propylene -----	nd			
Iso-butane -----	0.0010			
N-butane -----	0.0014			
Iso-pentane -----	0.0004			
N-pentane -----	0.0003			
Hexanes + -----	0.0001			

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. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.