

**TABLE 3**  
**SOIL VAPOR SCREENING FIELD DATA**  
**REI H 17-21D, 30D WELLHEADS**  
**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	SVP	4/3/23	10:43	SVP01-0403-1043	Isotube	Isotech	0.0	0.6	21.3	0	0	6553	
SVP02	SVP	4/3/23	11:29	SVP02-0403-1129	Isotube	Isotech	0.0	0.7	19.9	0	0	6553	
SVP03	SVP	4/3/23	11:33	SVP03-0403-1133	Isotube	Isotech	0.0	0.8	19.2	0	0	6553	
SVP04	SVP	4/3/23	11:36	SVP04-0403-1136	Isotube	Isotech	0.0	1.1	19.1	0	0	6553	
SVP05	SVP	4/3/23	11:39	SVP05-0403-1139	Isotube	Isotech	0.1	1.0	18.5	0	1	6553	
SVP06	SVP	4/3/23	11:44	SVP06-0403-1144	Isotube	Isotech	0.2	1.1	18.1	0	1	6553	
SVP07	SVP	4/3/23	11:48	SVP07-0403-1148	Isotube	Isotech	81.4	4.9	13.7	0	1	6553	Fresh air cal after sample
SVP08	SVP	4/3/23	11:56	SVP08-0403-1156	Isotube	Isotech	3.1	0.4	20.4	0	0	6553	Spike @ 46 sec then drop
SVP09	SVP	4/3/23	12:07	SVP09-0403-1207	Isotube	Isotech	0.1	0.2	20.9	0	0	6553	Spike 0.2% CH4 @ 50 sec
SVP10	SVP	4/3/23	12:10	SVP10-0403-1210	Isotube	Isotech	0.0	0.2	21.2	0	1	6553	

TABLE 4  
SOIL VAPOR LABORATORY ANALYTICAL RESULTS  
REI H 17-21D, 30D WELLHEADS  
WELD COUNTY, COLORADO  
KERR-MCGEE OIL AND 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> + %	Specific Gravity	BTU	Comments	
866440	SVP04-0403-1136	4/3/2023	11:36	REI H 17-21D, 30D Wellheads	Weld County	4/12/2023			0.962	19.66	0.98	78.36		0.0388										0.0011	1.004	0	
866441	SVP05-0403-1139	4/3/2023	11:39	REI H 17-21D, 30D Wellheads	Weld County	4/12/2023			0.962	19.69	0.59	78.56		0.196	0.0009				0.0001					0.0010	1.001	2	
866442	SVP06-0403-1144	4/3/2023	11:44	REI H 17-21D, 30D Wellheads	Weld County	4/12/2023			0.969	18.81	0.90	78.98		0.339	0.0006									0.0009	1.001	3	
866443	SVP07-0403-1148	4/3/2023	11:48	REI H 17-21D, 30D Wellheads	Weld County	4/12/2023			0.969	14.34	4.62	78.82		0.112	0.0004		0.0005		0.0015	0.0050	0.0642	0.0978	0.973	1.038	54		
866444	SVP08-0403-1156	4/3/2023	11:56	REI H 17-21D, 30D Wellheads	Weld County	4/12/2023			0.957	19.73	1.06	77.99		0.0348	0.0002		0.0002		0.0006	0.0015	0.0126	0.0186	0.191	1.008	11		
866448	SVP01-0403-1043	4/3/2023	10:43	REI H 17-21D, 30D Wellheads	Weld County	4/19/2023			0.952	21.08	0.38	77.59		0.0016										0.001	1.002	0	
866449	SVP02-0403-1129	4/3/2023	11:29	REI H 17-21D, 30D Wellheads	Weld County	4/19/2023			0.958	20.66	0.48	77.87		0.0273										0.0008	1.002	0	
866450	SVP03-0403-1133	4/3/2023	11:33	REI H 17-21D, 30D Wellheads	Weld County	4/19/2023			0.963	19.93	0.64	78.39		0.0763	0.0004									0.0011	1.002	1	
866451	SVP09-0403-1207	4/3/2023	12:07	REI H 17-21D, 30D Wellheads	Weld County	4/19/2023			0.955	21.23	0.16	77.65		0.0011										0.002	1.001	0	
866452	SVP10-0403-1210	4/3/2023	12:10	REI H 17-21D, 30D Wellheads	Weld County	4/20/2023			0.953	21.47	0.06	77.52		0.0002										0.0008	1.001	0	

Lab #: 866440 Job #: 54162 IS-107457 Co. Job#:   
 Sample Name: SVP04-0403-1136 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: REI H 17-21D, 30D Wellheads   
 Location: Weld County   
 Formation:   
 Sampling Point:   
 Date Sampled: 4/03/2023 11:36 Date Received: 4/10/2023 Date Reported: 4/13/2023

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 -----	19.66			
Nitrogen -----	78.36			
Carbon Dioxide -----	0.98			
Methane -----	0.0388			
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: 1.004

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 #: 866441 Job #: 54162 IS-107457 Co. Job#:   
 Sample Name: SVP05-0403-1139 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: REI H 17-21D, 30D Wellheads   
 Location: Weld County   
 Formation:   
 Sampling Point:   
 Date Sampled: 4/03/2023 11:39 Date Received: 4/10/2023 Date Reported: 4/13/2023

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 -----	19.69			
Nitrogen -----	78.56			
Carbon Dioxide -----	0.59			
Methane -----	0.196			
Ethane -----	0.0009			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	0.0001			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0010			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 2

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 #: 866442 Job #: 54162 IS-107457 Co. Job#:   
 Sample Name: SVP06-0403-1144 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: REI H 17-21D, 30D Wellheads   
 Location: Weld County   
 Formation:   
 Sampling Point:   
 Date Sampled: 4/03/2023 11:44 Date Received: 4/10/2023 Date Reported: 4/13/2023

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 -----	18.81			
Nitrogen -----	78.98			
Carbon Dioxide -----	0.90			
Methane -----	0.339			
Ethane -----	0.0006			
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: 3

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 #: 866443 Job #: 54162 IS-107457 Co. Job#:   
 Sample Name: SVP07-0403-1148 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: REI H 17-21D, 30D Wellheads   
 Location: Weld County   
 Formation:   
 Sampling Point:   
 Date Sampled: 4/03/2023 11:48 Date Received: 4/10/2023 Date Reported: 4/13/2023

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 -----	14.34			
Nitrogen -----	78.82			
Carbon Dioxide -----	4.62			
Methane -----	0.112			
Ethane -----	0.0004			
Ethylene -----	nd			
Propane -----	0.0005			
Propylene -----	nd			
Iso-butane -----	0.0015			
N-butane -----	0.0050			
Iso-pentane -----	0.0642			
N-pentane -----	0.0978			
Hexanes + -----	0.973			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 54

Specific gravity, calculated: 1.038

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 #: 866444 Job #: 54162 IS-107457 Co. Job#:   
 Sample Name: SVP08-0403-1156 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: REI H 17-21D, 30D Wellheads   
 Location: Weld County   
 Formation:   
 Sampling Point:   
 Date Sampled: 4/03/2023 11:56 Date Received: 4/10/2023 Date Reported: 4/13/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.957			
Oxygen -----	19.73			
Nitrogen -----	77.99			
Carbon Dioxide -----	1.06			
Methane -----	0.0348			
Ethane -----	0.0002			
Ethylene -----	nd			
Propane -----	0.0002			
Propylene -----	nd			
Iso-butane -----	0.0006			
N-butane -----	0.0015			
Iso-pentane -----	0.0126			
N-pentane -----	0.0186			
Hexanes + -----	0.191			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 11

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 #: 866448 Job #: 54164 IS-107457 Co. Job#:   
 Sample Name: SVP01-0403-1043 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: REI H 17-21D, 30D Wellheads   
 Location: Weld County   
 Formation:   
 Sampling Point:   
 Date Sampled: 4/03/2023 10:43 Date Received: 4/10/2023 Date Reported: 4/24/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.952			
Oxygen -----	21.08			
Nitrogen -----	77.59			
Carbon Dioxide -----	0.38			
Methane -----	0.0016			
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 #: 866449 Job #: 54164 IS-107457 Co. Job#:   
 Sample Name: SVP02-0403-1129 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: REI H 17-21D, 30D Wellheads   
 Location: Weld County   
 Formation:   
 Sampling Point:   
 Date Sampled: 4/03/2023 11:29 Date Received: 4/10/2023 Date Reported: 4/24/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.958			
Oxygen -----	20.66			
Nitrogen -----	77.87			
Carbon Dioxide -----	0.48			
Methane -----	0.0273			
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: 1.002

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 #: 866450 Job #: 54164 IS-107457 Co. Job#:   
 Sample Name: SVP03-0403-1133 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: REI H 17-21D, 30D Wellheads   
 Location: Weld County   
 Formation:   
 Sampling Point:   
 Date Sampled: 4/03/2023 11:33 Date Received: 4/10/2023 Date Reported: 4/24/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.963			
Oxygen -----	19.93			
Nitrogen -----	78.39			
Carbon Dioxide -----	0.64			
Methane -----	0.0763			
Ethane -----	0.0004			
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: 1

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 #: 866451 Job #: 54164 IS-107457 Co. Job#:   
 Sample Name: SVP09-0403-1207 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: REI H 17-21D, 30D Wellheads   
 Location: Weld County   
 Formation:   
 Sampling Point:   
 Date Sampled: 4/03/2023 12:07 Date Received: 4/10/2023 Date Reported: 4/24/2023

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 -----	21.23			
Nitrogen -----	77.65			
Carbon Dioxide -----	0.16			
Methane -----	0.0011			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0020			

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 #: 866452 Job #: 54164 IS-107457 Co. Job#:   
 Sample Name: SVP10-0403-1210 Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: REI H 17-21D, 30D Wellheads   
 Location: Weld County   
 Formation:   
 Sampling Point:   
 Date Sampled: 4/03/2023 12:10 Date Received: 4/10/2023 Date Reported: 4/24/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.953			
Oxygen -----	21.47			
Nitrogen -----	77.52			
Carbon Dioxide -----	0.057			
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: 1.001

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. %.