PANTECHS LABORATORIES, INC.

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Analytical Report

2/22/2023

Customer:	Occidental Permian Ltd.	**Order:**	780-4229
Location:	North Hobbs RCF	**Received:**	2/16/2023
Description:	Monthly Collection	**Primary Contact:**	Richard Sanders

REPORT DISTRIBUTION:

Brian Carlisle , Casey Morris , Chauncia Farayola , Chip Mitchell , Chris Frei , Chris Poe , Dillon Hart , Erica Zuniga , Greg Vencil , James King , Jimmy Dobson , John Dorow , Jonathon Coronado , Judy Rich , Justin Saxon , Kenley Powell , Kevin Mulkern , Richard Alvarado , Richard Sanders

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We appreciate you choosing Pantechs Laboratories. If you have any questions concerning this report, please feel free to contact us at any time.

Pantechs Laboratories, Inc.
Order: 780-4229 Order Date: 2/16/2023
Order Description: North Hobbs RCF, Monthly Collection

Sample List

Fluid	Operator	Location	Site	Sample Point	Date	Time
CO2	Occidental Permian Ltd.	North Hobbs RCF	2098	CO2 Discharge	2/16/2023	8:44 AM
CO2	Occidental Permian Ltd.	North Hobbs RCF	2099	CO2 Discharge	2/16/2023	8:38 AM
Gas	Occidental Permian Ltd.	North Hobbs RCF	1013	#1 Slug Catcher Inlet	2/16/2023	10:02 AM
Gas	Occidental Permian Ltd.	North Hobbs RCF	10002	NGL Plant Inlet	2/16/2023	9:15 AM
Gas	Occidental Permian Ltd.	North Hobbs RCF	21013	#2 Slug Catcher Inlet		
Gas	Occidental Permian Ltd.	North Hobbs RCF	21023	#3 Slug Catcher Inlet	2/16/2023	9:54 AM
Gas	Occidental Permian Ltd.	North Hobbs RCF	DEX PRO	Inlet	2/16/2023	9:24 AM
Gas	Occidental Permian Ltd.	North Hobbs RCF	DEX PRO	Outlet		
Gas	Occidental Permian Ltd.	North Hobbs RCF	Inlet 1	Header	2/16/2023	10:43 AM
Gas	Occidental Permian Ltd.	North Hobbs RCF	Inlet 2	Header	2/16/2023	10:38 AM
Gas	Occidental Permian Ltd.	North Hobbs RCF	Inlet 3	Header	2/16/2023	10:33 AM
Gas	Occidental Permian Ltd.	North Hobbs RCF	Inlet 4	Header	2/16/2023	10:25 AM
Gas	Occidental Permian Ltd.	North Hobbs RCF	Inlet 5	Header	2/16/2023	10:21 AM
Gas	Occidental Permian Ltd.	North Hobbs RCF	Inlet 6	Header	2/16/2023	10:12 AM
Gas	Occidental Permian Ltd.	North Hobbs RCF	Inlet 7	Header	2/16/2023	10:16 AM
Gas	Occidental Permian Ltd.	North Hobbs RCF	New 20" Line	Sample Valve	2/16/2023	10:07 AM
Gas	Occidental Permian Ltd.	North Hobbs RCF	Reflux Stabilizer	Sample Valve	2/16/2023	9:08 AM
Gas	Occidental Permian Ltd.	North Hobbs RCF	ROZ Inlet	Header	2/16/2023	10:46 AM
Gas	Occidental Permian Ltd.	North Hobbs RCF	Surge Tank	Propane Vapor	2/16/2023	9:36 AM
Gas	Occidental Permian Ltd.	North Hobbs RCF	WIB Inlet	Header		
Liquid	Occidental Permian Ltd.	North Hobbs RCF	DEX PRO	Gasoline		
Liquid	Occidental Permian Ltd.	North Hobbs RCF	NGL Storage	NGL	2/16/2023	8:57 AM

Liquid	Occidental Permian Ltd.	North Hobbs RCF	Stabilizer	Bottoms	2/16/2023	9:11 AM
Liquid	Occidental Permian Ltd.	North Hobbs RCF	Surge Tank	Propane Liquid	2/16/2023	9:40 AM

No Sample List

Operator	Location	Site	Sample Point	Comment
Occidental Permian Ltd.	North Hobbs RCF	21013	#2 Slug Catcher Inlet	No Flow at Sample Point
Occidental Permian Ltd.	North Hobbs RCF	DEX PRO	Gasoline	Sample Point All Water
Occidental Permian Ltd.	North Hobbs RCF	DEX PRO	Outlet	Unable to collect sample with Site Setup/Equipment
Occidental Permian Ltd.	North Hobbs RCF	WIB Inlet	Header	Sample Point All Liquid

Pantechs Laboratories, Inc. - Order: 780-4229 - Order Date: 2/16/2023
Order Description: North Hobbs RCF, Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	**Pressure**	1405 psig
Location	North Hobbs RCF	**Sample Temp**	N/A
Site	2098	**Atm Temp**	20 F
Site Type	Meter	**Collection Date**	02/16/2023
Sample Point	CO2 Discharge	**Collection Time**	8:44 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID	2098	**Pressure Base**	14.650 psi
Purchaser		**Temperature Base**	60 F
Fluid	CO2	**Container(s)**	YZ8187

GPA 2177 CO2 Fractional Analysis

COMPOUND	FORMULA	MOL%	VOL%	WT%
NITROGEN	N2	1.926	1.218	1.287
CARBON DIOXIDE	CO2	86.999	85.547	91.366
HYDROGEN SULFIDE	H2S	1.015	0.789	0.825
METHANE	C1	6.484	6.340	2.482
ETHANE	C2	1.055	1.628	0.757
PROPANE	C3	1.375	2.186	1.447
I-BUTANE	iC4	0.220	0.415	0.305
N-BUTANE	nC4	0.463	0.842	0.642
I-PENTANE	iC5	0.158	0.334	0.272
N-PENTANE	nC5	0.125	0.261	0.215
HEXANES PLUS	C6+	0.180	0.440	0.402
TOTALS:		**100.000**	**100.000**	**100.000**

Value of "0.000" in fractional interpreted as below detectable limit.
If Onsite H2S testing is performed, its resulting value is used in fractional table

Liquid Phase Properties

SCF/Gal (Ideal)	SCF/Gal (Real)	Mol Weight	Relative Density (60/60)	Vapor Pressure 100F, psia
58.007	57.680	41.907	0.766	339.7

Vapor Phase Properties

ITEM	BTU/CF	Specific Gr.	Z Factor
DRY	168.45	1.455	0.994
WATER SATURATED	166.46	1.441	0.994

Onsite Testing by Stain Tube

METHOD	TYPE	MEAS VALUE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	1.00 vol%	1.0147	644.32	10,244.7

Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.

Pantechs Laboratories, Inc. - Order: 780-4229 - Order Date: 2/16/2023

Order Description: North Hobbs RCF, Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	**Pressure**	1413 psig
Location	North Hobbs RCF	**Sample Temp**	N/A
Site	2099	**Atm Temp**	20 F
Site Type	Meter	**Collection Date**	02/16/2023
Sample Point	CO2 Discharge	**Collection Time**	8:38 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID	2099	**Pressure Base**	14.650 psi
Purchaser		**Temperature Base**	60 F
Fluid	CO2	**Container(s)**	PLP17207

GPA 2177 CO2 Fractional Analysis

COMPOUND	FORMULA	MOL%	VOL%	WT%
NITROGEN	N2	1.939	1.237	1.318
CARBON DIOXIDE	CO2	85.681	84.959	91.491
HYDROGEN SULFIDE	H2S	1.421	1.114	1.175
METHANE	C1	7.990	7.879	3.110
ETHANE	C2	1.223	1.903	0.892
PROPANE	C3	1.457	2.336	1.559
I-BUTANE	iC4	0.088	0.167	0.124
N-BUTANE	nC4	0.116	0.213	0.164
I-PENTANE	iC5	0.028	0.060	0.049
N-PENTANE	nC5	0.023	0.048	0.040
HEXANES PLUS	C6+	0.034	0.084	0.078
TOTALS:		**100.000**	**100.000**	**100.000**

Value of "0.000" in fractional interpreted as below detectable limit.
If Onsite H2S testing is performed, its resulting value is used in fractional table

Liquid Phase Properties

SCF/Gal (Ideal)	SCF/Gal (Real)	Mol Weight	Relative Density (60/60)	Vapor Pressure 100F, psia
58.495	58.179	41.215	0.760	417.8

Vapor Phase Properties

ITEM	BTU/CF	Specific Gr.	Z Factor
DRY	158.86	1.430	0.995
WATER SATURATED	157.03	1.417	0.994

Onsite Testing by Stain Tube

METHOD	TYPE	MEAS VALUE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	1.40 vol%	1.4206	902.05	14,342.6

Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.

Pantechs Laboratories, Inc. - Order: 780-4229 - Order Date: 2/16/2023

Order Description: North Hobbs RCF, Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	**Pressure**	285 psig
Location	North Hobbs RCF	**Sample Temp**	N/A
Site	1013	**Atm Temp**	31 F
Site Type	Meter	**Collection Date**	02/16/2023
Sample Point	#1 Slug Catcher Inlet	**Collection Time**	10:02 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID	1013	**Pressure Base**	14.650 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PL1651

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	2.111	1.425	0.231
CARBON DIOXIDE	CO2	85.193	90.368	14.523
HYDROGEN SULFIDE	H2S	0.727	0.597	0.098
METHANE	C1	7.987	3.088	1.354
ETHANE	C2	1.243	0.901	0.332
PROPANE	C3	1.537	1.634	0.424
I-BUTANE	iC4	0.212	0.297	0.069
N-BUTANE	nC4	0.453	0.635	0.143
I-PENTANE	iC5	0.169	0.294	0.062
N-PENTANE	nC5	0.139	0.242	0.050
HEXANES PLUS	C6+	0.229	0.519	0.097
TOTALS:		**100.000**	**100.000**	**17.383**

Value of "0.000" in fractional interpreted as below detectable limit.
If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Liquid	10# Liquid
GAL/MSCF (GPM)	1.177	0.845	0.421	0.209	0.318	0.184

GPA 2172/ASTM D3588 CALCULATED PROPERTIES

WATER CONTENT	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	192.23	1.440	0.994	41.490	160.19
WATER SATURATED	189.83	1.426	0.994	40.765	

Onsite Testing by Stain Tube

METHOD	TYPE	MEAS VALUE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	0.70 vol%	0.7266	461.36	7,335.6

Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.

Pantechs Laboratories, Inc. - Order: 780-4229 - Order Date: 2/16/2023

Order Description: North Hobbs RCF, Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	**Pressure**	282 psig
Location	North Hobbs RCF	**Sample Temp**	N/A
Site	10002	**Atm Temp**	24 F
Site Type	Meter	**Collection Date**	02/16/2023
Sample Point	NGL Plant Inlet	**Collection Time**	9:15 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID	10002	**Pressure Base**	14.650 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PL2073

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	1.813	1.222	0.199
CARBON DIOXIDE	CO2	85.319	90.353	14.545
HYDROGEN SULFIDE	H2S	0.921	0.755	0.124
METHANE	C1	7.927	3.060	1.344
ETHANE	C2	1.236	0.894	0.331
PROPANE	C3	1.533	1.627	0.423
I-BUTANE	iC4	0.213	0.298	0.070
N-BUTANE	nC4	0.455	0.636	0.143
I-PENTANE	iC5	0.173	0.300	0.063
N-PENTANE	nC5	0.143	0.248	0.052
HEXANES PLUS	C6+	0.267	0.607	0.114
TOTALS:		**100.000**	**100.000**	**17.408**

Value of "0.000" in fractional interpreted as below detectable limit.
If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Liquid	10# Liquid
GAL/MSCF (GPM)	1.196	0.865	0.442	0.229	0.351	0.213

GPA 2172/ASTM D3588 CALCULATED PROPERTIES

WATER CONTENT	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	195.08	1.443	0.994	41.559	162.42
WATER SATURATED	192.64	1.429	0.994	40.832	

Onsite Testing by Stain Tube

METHOD	TYPE	MEAS VALUE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	0.90 vol%	0.9208	584.72	9,297.0

Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.

Pantechs Laboratories, Inc. - Order: 780-4229 - Order Date: 2/16/2023

Order Description: North Hobbs RCF, Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	**Pressure**	N/A
Location	North Hobbs RCF	**Sample Temp**	N/A
Site	21013	**Atm Temp**	N/A
Site Type	Meter	**Collection Date**	
Sample Point	#2 Slug Catcher Inlet	**Collection Time**	
Spot/Comp	Spot	**Collection By**	
Meter ID	21013	**Pressure Base**	14.650 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	

No Sample

Employee	Comment
Cody Carson	No Flow at Sample Point

Pantechs Laboratories, Inc. - Order: 780-4229 - Order Date: 2/16/2023
Order Description: North Hobbs RCF, Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	**Pressure**	289 psig
Location	North Hobbs RCF	**Sample Temp**	N/A
Site	21023	**Atm Temp**	25 F
Site Type	Meter	**Collection Date**	02/16/2023
Sample Point	#3 Slug Catcher Inlet	**Collection Time**	9:54 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID	21023	**Pressure Base**	14.650 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PL2159

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	1.869	1.238	0.205
CARBON DIOXIDE	CO2	88.530	92.132	15.093
HYDROGEN SULFIDE	H2S	0.543	0.438	0.073
METHANE	C1	5.558	2.108	0.942
ETHANE	C2	0.946	0.673	0.253
PROPANE	C3	1.289	1.344	0.355
I-BUTANE	iC4	0.209	0.287	0.068
N-BUTANE	nC4	0.471	0.647	0.149
I-PENTANE	iC5	0.174	0.297	0.064
N-PENTANE	nC5	0.148	0.252	0.054
HEXANES PLUS	C6+	0.263	0.584	0.112
TOTALS:		**100.000**	**100.000**	**17.368**

Value of "0.000" in fractional interpreted as below detectable limit.
If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Liquid	10# Liquid
GAL/MSCF (GPM)	1.055	0.802	0.447	0.230	0.352	0.210

GPA 2172/ASTM D3588 CALCULATED PROPERTIES

WATER CONTENT	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	157.75	1.468	0.994	42.290	130.19
WATER SATURATED	155.94	1.454	0.994	41.551	

Onsite Testing by Stain Tube

METHOD	TYPE	MEAS VALUE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	0.53 vol%	0.5434	345.05	5,486.3

Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.

Pantechs Laboratories, Inc. - Order: 780-4229 - Order Date: 2/16/2023

Order Description: North Hobbs RCF, Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	**Pressure**	286 psig
Location	North Hobbs RCF	**Sample Temp**	N/A
Site	DEX PRO	**Atm Temp**	24 F
Site Type	Station	**Collection Date**	02/16/2023
Sample Point	Inlet	**Collection Time**	9:24 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID		**Pressure Base**	14.650 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PL1031

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	2.089	1.390	0.229
CARBON DIOXIDE	CO2	88.021	91.979	15.005
HYDROGEN SULFIDE	H2S	0.614	0.497	0.083
METHANE	C1	5.839	2.224	0.990
ETHANE	C2	0.978	0.698	0.262
PROPANE	C3	1.311	1.373	0.361
I-BUTANE	iC4	0.210	0.290	0.069
N-BUTANE	nC4	0.460	0.635	0.145
I-PENTANE	iC5	0.160	0.274	0.059
N-PENTANE	nC5	0.130	0.223	0.047
HEXANES PLUS	C6+	0.188	0.417	0.079
TOTALS:		**100.000**	**100.000**	**17.329**

Value of "0.000" in fractional interpreted as below detectable limit.
If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Liquid	10# Liquid
GAL/MSCF (GPM)	1.022	0.760	0.399	0.185	0.279	0.152

GPA 2172/ASTM D3588 CALCULATED PROPERTIES

WATER CONTENT	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	156.63	1.462	0.994	42.116	129.54
WATER SATURATED	154.84	1.448	0.994	41.380	

Onsite Testing by Stain Tube

METHOD	TYPE	MEAS VALUE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	0.60 vol%	0.6139	389.82	6,198.1

Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.

Pantechs Laboratories, Inc. - Order: 780-4229 - Order Date: 2/16/2023

Order Description: North Hobbs RCF, Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	**Pressure**	N/A
Location	North Hobbs RCF	**Sample Temp**	N/A
Site	DEX PRO	**Atm Temp**	N/A
Site Type	Station	**Collection Date**	
Sample Point	Outlet	**Collection Time**	
Spot/Comp	Spot	**Collection By**	
Meter ID		**Pressure Base**	14.650 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	

No Sample

Employee	Comment
Cody Carson	Unable to collect sample with Site Setup/Equipment

Pantechs Laboratories, Inc. - Order: 780-4229 - Order Date: 2/16/2023

Order Description: North Hobbs RCF, Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	**Pressure**	293 psig
Location	North Hobbs RCF	**Sample Temp**	N/A
Site	Inlet 1	**Atm Temp**	31 F
Site Type	Station	**Collection Date**	02/16/2023
Sample Point	Header	**Collection Time**	10:43 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID		**Pressure Base**	14.650 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PL2478

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	1.964	1.334	0.215
CARBON DIOXIDE	CO2	84.529	90.199	14.409
HYDROGEN SULFIDE	H2S	0.623	0.515	0.084
METHANE	C1	8.770	3.411	1.487
ETHANE	C2	1.373	1.001	0.367
PROPANE	C3	1.707	1.825	0.470
I-BUTANE	iC4	0.197	0.278	0.064
N-BUTANE	nC4	0.392	0.552	0.124
I-PENTANE	iC5	0.134	0.234	0.049
N-PENTANE	nC5	0.113	0.198	0.041
HEXANES PLUS	C6+	0.198	0.453	0.084
TOTALS:		**100.000**	**100.000**	**17.394**

Value of "0.000" in fractional interpreted as below detectable limit.
If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Liquid	10# Liquid
GAL/MSCF (GPM)	1.199	0.832	0.362	0.174	0.267	0.158

GPA 2172/ASTM D3588 CALCULATED PROPERTIES

WATER CONTENT	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	199.58	1.431	0.994	41.244	166.81
WATER SATURATED	197.06	1.418	0.994	40.523	

Onsite Testing by Stain Tube

METHOD	TYPE	MEAS VALUE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	0.60 vol%	0.6228	395.45	6,287.7

Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.

Pantechs Laboratories, Inc. - Order: 780-4229 - Order Date: 2/16/2023

Order Description: North Hobbs RCF, Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	**Pressure**	235 psig
Location	North Hobbs RCF	**Sample Temp**	N/A
Site	Inlet 2	**Atm Temp**	31 F
Site Type	Station	**Collection Date**	02/16/2023
Sample Point	Header	**Collection Time**	10:38 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID		**Pressure Base**	14.650 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PL2190

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	1.901	1.271	0.208
CARBON DIOXIDE	CO2	86.899	91.270	14.814
HYDROGEN SULFIDE	H2S	0.467	0.380	0.063
METHANE	C1	6.826	2.613	1.157
ETHANE	C2	1.125	0.807	0.301
PROPANE	C3	1.488	1.566	0.410
I-BUTANE	iC4	0.238	0.330	0.078
N-BUTANE	nC4	0.517	0.717	0.163
I-PENTANE	iC5	0.176	0.303	0.064
N-PENTANE	nC5	0.139	0.239	0.050
HEXANES PLUS	C6+	0.224	0.504	0.095
TOTALS:		**100.000**	**100.000**	**17.403**

Value of "0.000" in fractional interpreted as below detectable limit.
If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Liquid	10# Liquid
GAL/MSCF (GPM)	1.161	0.860	0.450	0.209	0.317	0.180

GPA 2172/ASTM D3588 CALCULATED PROPERTIES

WATER CONTENT	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	178.48	1.455	0.994	41.903	147.99
WATER SATURATED	176.32	1.441	0.994	41.171	

Onsite Testing by Stain Tube

METHOD	TYPE	MEAS VALUE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	0.45 vol%	0.4671	296.59	4,715.8

Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.

Pantechs Laboratories, Inc. - Order: 780-4229 - Order Date: 2/16/2023
Order Description: North Hobbs RCF, Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	**Pressure**	289 psig
Location	North Hobbs RCF	**Sample Temp**	N/A
Site	Inlet 3	**Atm Temp**	31 F
Site Type	Station	**Collection Date**	02/16/2023
Sample Point	Header	**Collection Time**	10:33 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID		**Pressure Base**	14.650 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PL2072

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	1.733	1.132	0.190
CARBON DIOXIDE	CO2	88.493	90.841	15.092
HYDROGEN SULFIDE	H2S	0.623	0.495	0.084
METHANE	C1	4.726	1.768	0.802
ETHANE	C2	0.843	0.591	0.226
PROPANE	C3	1.330	1.368	0.367
I-BUTANE	iC4	0.283	0.384	0.093
N-BUTANE	nC4	0.709	0.961	0.224
I-PENTANE	iC5	0.320	0.539	0.117
N-PENTANE	nC5	0.288	0.485	0.104
HEXANES PLUS	C6+	0.652	1.436	0.278
TOTALS:		**100.000**	**100.000**	**17.577**

Value of "0.000" in fractional interpreted as below detectable limit.
If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Liquid	10# Liquid
GAL/MSCF (GPM)	1.409	1.183	0.816	0.499	0.754	0.501

GPA 2172/ASTM D3588 CALCULATED PROPERTIES

WATER CONTENT	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	190.98	1.489	0.994	42.873	156.52
WATER SATURATED	188.61	1.474	0.994	42.124	

Onsite Testing by Stain Tube

METHOD	TYPE	MEAS VALUE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	0.60 vol%	0.6228	395.45	6,287.7

Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.

Pantechs Laboratories, Inc. - Order: 780-4229 - Order Date: 2/16/2023

Order Description: North Hobbs RCF, Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	**Pressure**	289 psig
Location	North Hobbs RCF	**Sample Temp**	N/A
Site	Inlet 4	**Atm Temp**	31 F
Site Type	Station	**Collection Date**	02/16/2023
Sample Point	Header	**Collection Time**	10:25 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID		**Pressure Base**	14.650 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PL2462

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	1.927	1.307	0.211
CARBON DIOXIDE	CO2	84.426	89.955	14.392
HYDROGEN SULFIDE	H2S	0.737	0.608	0.099
METHANE	C1	8.773	3.408	1.487
ETHANE	C2	1.343	0.978	0.359
PROPANE	C3	1.595	1.703	0.440
I-BUTANE	iC4	0.204	0.287	0.067
N-BUTANE	nC4	0.423	0.595	0.133
I-PENTANE	iC5	0.154	0.269	0.056
N-PENTANE	nC5	0.131	0.229	0.047
HEXANES PLUS	C6+	0.287	0.661	0.123
TOTALS:		**100.000**	**100.000**	**17.414**

Value of "0.000" in fractional interpreted as below detectable limit.
If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Liquid	10# Liquid
GAL/MSCF (GPM)	1.225	0.866	0.426	0.226	0.351	0.226

GPA 2172/ASTM D3588 CALCULATED PROPERTIES

WATER CONTENT	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	204.45	1.434	0.994	41.304	170.75
WATER SATURATED	201.85	1.420	0.994	40.583	

Onsite Testing by Stain Tube

METHOD	TYPE	MEAS VALUE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	0.71 vol%	0.7369	467.95	7,440.4

Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.

Pantechs Laboratories, Inc. - Order: 780-4229 - Order Date: 2/16/2023

Order Description: North Hobbs RCF, Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	**Pressure**	288 psig
Location	North Hobbs RCF	**Sample Temp**	N/A
Site	Inlet 5	**Atm Temp**	31 F
Site Type	Station	**Collection Date**	02/16/2023
Sample Point	Header	**Collection Time**	10:21 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID		**Pressure Base**	14.650 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PL1554

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	1.963	1.330	0.215
CARBON DIOXIDE	CO2	84.761	90.201	14.449
HYDROGEN SULFIDE	H2S	0.747	0.616	0.101
METHANE	C1	8.504	3.299	1.442
ETHANE	C2	1.311	0.953	0.351
PROPANE	C3	1.566	1.670	0.432
I-BUTANE	iC4	0.206	0.290	0.067
N-BUTANE	nC4	0.423	0.595	0.133
I-PENTANE	iC5	0.148	0.258	0.054
N-PENTANE	nC5	0.121	0.211	0.044
HEXANES PLUS	C6+	0.250	0.577	0.107
TOTALS:		**100.000**	**100.000**	**17.395**

Value of "0.000" in fractional interpreted as below detectable limit.
If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Liquid	10# Liquid
GAL/MSCF (GPM)	1.188	0.837	0.405	0.205	0.317	0.199

GPA 2172/ASTM D3588 CALCULATED PROPERTIES

WATER CONTENT	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	198.03	1.435	0.994	41.355	165.29
WATER SATURATED	195.54	1.422	0.994	40.632	

Onsite Testing by Stain Tube

METHOD	TYPE	MEAS VALUE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	0.72 vol%	0.7473	474.54	7,545.2

Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.

Pantechs Laboratories, Inc. - Order: 780-4229 - Order Date: 2/16/2023

Order Description: North Hobbs RCF, Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	**Pressure**	287 psig
Location	North Hobbs RCF	**Sample Temp**	N/A
Site	Inlet 6	**Atm Temp**	31 F
Site Type	Station	**Collection Date**	02/16/2023
Sample Point	Header	**Collection Time**	10:12 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID		**Pressure Base**	14.650 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PL1795

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	1.992	1.349	0.218
CARBON DIOXIDE	CO2	84.907	90.326	14.474
HYDROGEN SULFIDE	H2S	0.675	0.556	0.091
METHANE	C1	8.434	3.271	1.430
ETHANE	C2	1.305	0.949	0.349
PROPANE	C3	1.565	1.668	0.431
I-BUTANE	iC4	0.203	0.285	0.066
N-BUTANE	nC4	0.413	0.580	0.130
I-PENTANE	iC5	0.144	0.251	0.053
N-PENTANE	nC5	0.121	0.211	0.044
HEXANES PLUS	C6+	0.241	0.554	0.103
TOTALS:		**100.000**	**100.000**	**17.389**

Value of "0.000" in fractional interpreted as below detectable limit.
If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Liquid	10# Liquid
GAL/MSCF (GPM)	1.176	0.827	0.396	0.200	0.308	0.192

GPA 2172/ASTM D3588 CALCULATED PROPERTIES

WATER CONTENT	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	195.64	1.436	0.994	41.370	163.27
WATER SATURATED	193.19	1.422	0.994	40.647	

Onsite Testing by Stain Tube

METHOD	TYPE	MEAS VALUE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	0.65 vol%	0.6747	428.41	6,811.7

Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.

Pantechs Laboratories, Inc. - Order: 780-4229 - Order Date: 2/16/2023

Order Description: North Hobbs RCF, Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	**Pressure**	288 psig
Location	North Hobbs RCF	**Sample Temp**	N/A
Site	Inlet 7	**Atm Temp**	31 F
Site Type	Station	**Collection Date**	02/16/2023
Sample Point	Header	**Collection Time**	10:16 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID		**Pressure Base**	14.650 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PL2139

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	1.749	1.127	0.192
CARBON DIOXIDE	CO2	94.063	95.193	16.038
HYDROGEN SULFIDE	H2S	0.197	0.154	0.027
METHANE	C1	1.537	0.567	0.261
ETHANE	C2	0.442	0.306	0.118
PROPANE	C3	0.880	0.892	0.243
I-BUTANE	iC4	0.199	0.266	0.065
N-BUTANE	nC4	0.466	0.623	0.147
I-PENTANE	iC5	0.153	0.254	0.056
N-PENTANE	nC5	0.124	0.206	0.045
HEXANES PLUS	C6+	0.190	0.412	0.081
TOTALS:		**100.000**	**100.000**	**17.273**

Value of "0.000" in fractional interpreted as below detectable limit.
If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Liquid	10# Liquid
GAL/MSCF (GPM)	0.755	0.637	0.394	0.182	0.275	0.155

GPA 2172/ASTM D3588 CALCULATED PROPERTIES

WATER CONTENT	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	89.54	1.510	0.994	43.487	72.87
WATER SATURATED	88.90	1.495	0.994	42.727	

Onsite Testing by Stain Tube

METHOD	TYPE	MEAS VALUE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	0.19 vol%	0.1972	125.23	1,991.2

Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.

Pantechs Laboratories, Inc. - Order: 780-4229 - Order Date: 2/16/2023

Order Description: North Hobbs RCF, Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	**Pressure**	287 psig
Location	North Hobbs RCF	**Sample Temp**	N/A
Site	New 20" Line	**Atm Temp**	31 F
Site Type	Station	**Collection Date**	02/16/2023
Sample Point	Sample Valve	**Collection Time**	10:07 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID		**Pressure Base**	14.650 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PL1562

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	1.750	1.127	0.192
CARBON DIOXIDE	CO2	93.841	94.909	16.001
HYDROGEN SULFIDE	H2S	0.208	0.163	0.028
METHANE	C1	1.583	0.584	0.268
ETHANE	C2	0.459	0.317	0.123
PROPANE	C3	0.892	0.904	0.246
I-BUTANE	iC4	0.218	0.291	0.071
N-BUTANE	nC4	0.506	0.676	0.160
I-PENTANE	iC5	0.166	0.275	0.061
N-PENTANE	nC5	0.135	0.224	0.049
HEXANES PLUS	C6+	0.242	0.530	0.103
TOTALS:		**100.000**	**100.000**	**17.302**

Value of "0.000" in fractional interpreted as below detectable limit.
If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Liquid	10# Liquid
GAL/MSCF (GPM)	0.813	0.690	0.444	0.213	0.327	0.196

GPA 2172/ASTM D3588 CALCULATED PROPERTIES

WATER CONTENT	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	96.41	1.511	0.994	43.515	78.43
WATER SATURATED	95.65	1.496	0.994	42.754	

Onsite Testing by Stain Tube

METHOD	TYPE	MEAS VALUE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	0.20 vol%	0.2076	131.82	2,095.9

Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.

Pantechs Laboratories, Inc. - Order: 780-4229 - Order Date: 2/16/2023

Order Description: North Hobbs RCF, Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	**Pressure**	220 psig
Location	North Hobbs RCF	**Sample Temp**	N/A
Site	Reflux Stabilizer	**Atm Temp**	24 F
Site Type	Station	**Collection Date**	02/16/2023
Sample Point	Sample Valve	**Collection Time**	9:08 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID		**Pressure Base**	14.650 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PL3072

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	1.945	1.321	0.213
CARBON DIOXIDE	CO2	87.099	92.903	14.843
HYDROGEN SULFIDE	H2S	0.031	0.026	0.004
METHANE	C1	8.148	3.168	1.381
ETHANE	C2	1.262	0.920	0.337
PROPANE	C3	1.409	1.506	0.388
I-BUTANE	iC4	0.058	0.082	0.019
N-BUTANE	nC4	0.039	0.055	0.012
I-PENTANE	iC5	0.001	0.002	0.000
N-PENTANE	nC5	0.002	0.003	0.001
HEXANES PLUS	C6+	0.006	0.014	0.003
TOTALS:		**100.000**	**100.000**	**17.201**

Value of "0.000" in fractional interpreted as below detectable limit.
If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Liquid	10# Liquid
GAL/MSCF (GPM)	0.760	0.423	0.035	0.004	0.006	0.004

GPA 2172/ASTM D3588 CALCULATED PROPERTIES

WATER CONTENT	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	144.19	1.432	0.995	41.260	120.50
WATER SATURATED	142.61	1.418	0.994	40.539	

Pantechs Laboratories, Inc. - Order: 780-4229 - Order Date: 2/16/2023
Order Description: North Hobbs RCF, Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	**Pressure**	293 psig
Location	North Hobbs RCF	**Sample Temp**	N/A
Site	ROZ Inlet	**Atm Temp**	31 F
Site Type	Station	**Collection Date**	02/16/2023
Sample Point	Header	**Collection Time**	10:46 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID		**Pressure Base**	14.650 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PL0470

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	1.851	1.243	0.203
CARBON DIOXIDE	CO2	85.814	90.568	14.630
HYDROGEN SULFIDE	H2S	0.623	0.509	0.084
METHANE	C1	7.652	2.944	1.297
ETHANE	C2	1.194	0.861	0.319
PROPANE	C3	1.508	1.595	0.416
I-BUTANE	iC4	0.219	0.305	0.072
N-BUTANE	nC4	0.476	0.663	0.150
I-PENTANE	iC5	0.192	0.332	0.070
N-PENTANE	nC5	0.162	0.280	0.059
HEXANES PLUS	C6+	0.309	0.700	0.131
TOTALS:		**100.000**	**100.000**	**17.431**

Value of "0.000" in fractional interpreted as below detectable limit.
If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Liquid	10# Liquid
GAL/MSCF (GPM)	1.217	0.898	0.482	0.260	0.400	0.245

GPA 2172/ASTM D3588 CALCULATED PROPERTIES

WATER CONTENT	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	193.60	1.448	0.994	41.700	160.92
WATER SATURATED	191.18	1.434	0.994	40.972	

Onsite Testing by Stain Tube

METHOD	TYPE	MEAS VALUE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	0.60 vol%	0.6228	395.45	6,287.7

Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.

Pantechs Laboratories, Inc. - Order: 780-4229 - Order Date: 2/16/2023

Order Description: North Hobbs RCF, Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	**Pressure**	85 psig
Location	North Hobbs RCF	**Sample Temp**	N/A
Site	Surge Tank	**Atm Temp**	24 F
Site Type	Tank	**Collection Date**	02/16/2023
Sample Point	Propane Vapor	**Collection Time**	9:36 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID		**Pressure Base**	14.650 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PL2362

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.317	0.217	0.035
CARBON DIOXIDE	CO2	0.185	0.199	0.032
HYDROGEN SULFIDE	H2S	0.000	0.000	0.000
METHANE	C1	0.682	0.268	0.117
ETHANE	C2	21.631	15.930	5.841
PROPANE	C3	77.141	83.313	21.460
I-BUTANE	iC4	0.022	0.031	0.007
N-BUTANE	nC4	0.009	0.013	0.003
I-PENTANE	iC5	0.002	0.004	0.001
N-PENTANE	nC5	0.002	0.004	0.001
HEXANES PLUS	C6+	0.009	0.021	0.004
TOTALS:		**100.000**	**100.000**	**27.501**

Value of "0.000" in fractional interpreted as below detectable limit.
If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Liquid	10# Liquid
GAL/MSCF (GPM)	27.317	21.476	0.016	0.006	0.009	0.006

GPA 2172/ASTM D3588 CALCULATED PROPERTIES

WATER CONTENT	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	2,360.06	1.431	0.985	40.831	1,973.20
WATER SATURATED	2,320.84	1.417	0.985	40.117	

Pantechs Laboratories, Inc. - Order: 780-4229 - Order Date: 2/16/2023

Order Description: North Hobbs RCF, Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	**Pressure**	N/A
Location	North Hobbs RCF	**Sample Temp**	N/A
Site	WIB Inlet	**Atm Temp**	N/A
Site Type	Station	**Collection Date**	
Sample Point	Header	**Collection Time**	
Spot/Comp	Spot	**Collection By**	
Meter ID		**Pressure Base**	14.650 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	

No Sample

Employee	Comment
Cody Carson	Sample Point All Liquid

Pantechs Laboratories, Inc. - Order: 780-4229 - Order Date: 2/16/2023

Order Description: North Hobbs RCF, Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	**Pressure**	N/A
Location	North Hobbs RCF	**Sample Temp**	N/A
Site	DEX PRO	**Atm Temp**	N/A
Site Type	Station	**Collection Date**	
Sample Point	Gasoline	**Collection Time**	
Spot/Comp	Spot	**Collection By**	
Meter ID		**Pressure Base**	14.650 psi
Purchaser		**Temperature Base**	60 F
Fluid	Liquid	**Container(s)**	

No Sample

Employee	Comment
Cody Carson	Sample Point All Water

Pantechs Laboratories, Inc. - Order: 780-4229 - Order Date: 2/16/2023

Order Description: North Hobbs RCF, Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	**Pressure**	1000 psig
Location	North Hobbs RCF	**Sample Temp**	N/A
Site	NGL Storage	**Atm Temp**	24 F
Site Type	Vessel	**Collection Date**	02/16/2023
Sample Point	NGL	**Collection Time**	8:57 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID		**Pressure Base**	14.650 psi
Purchaser		**Temperature Base**	60 F
Fluid	Liquid	**Container(s)**	PL0693

GPA 2177 Liquid Fractional Analysis

COMPOUND	FORMULA	MOL%	VOL%	WT%
NITROGEN	N2	0.021	0.007	0.009
CARBON DIOXIDE	CO2	0.010	0.005	0.007
HYDROGEN SULFIDE	H2S	0.000	0.000	0.000
METHANE	C1	0.000	0.000	0.000
ETHANE	C2	0.000	0.000	0.000
PROPANE	C3	18.537	15.145	12.740
I-BUTANE	iC4	11.987	11.627	10.859
N-BUTANE	nC4	31.181	29.148	28.247
I-PENTANE	iC5	12.490	13.557	14.045
N-PENTANE	nC5	10.165	10.916	11.431
HEXANES PLUS	C6+	15.609	19.595	22.662
TOTALS:		**100.000**	**100.000**	**100.000**

Value of "0.000" in fractional interpreted as below detectable limit.

Calculated Properties

SCF/Gal (Ideal)	SCF/Gal (Real)	Mol Weight	Relative Density (60/60)	Vapor Pressure 100F, psia	Reid VP Equivalent, psi
29.815	28.544	64.161	0.603	64.6	61.4

Pantechs Laboratories, Inc. - Order: 780-4229 - Order Date: 2/16/2023

Order Description: North Hobbs RCF, Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	**Pressure**	280 psig
Location	North Hobbs RCF	**Sample Temp**	N/A
Site	Stabilizer	**Atm Temp**	24 F
Site Type	Vessel	**Collection Date**	02/16/2023
Sample Point	Bottoms	**Collection Time**	9:11 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID		**Pressure Base**	14.650 psi
Purchaser		**Temperature Base**	60 F
Fluid	Liquid	**Container(s)**	PL2472

GPA 2177 Liquid Fractional Analysis

COMPOUND	FORMULA	MOL%	VOL%	WT%
NITROGEN	N2	0.100	0.035	0.049
CARBON DIOXIDE	CO2	0.019	0.010	0.015
HYDROGEN SULFIDE	H2S	0.000	0.000	0.000
METHANE	C1	0.000	0.000	0.000
ETHANE	C2	0.000	0.000	0.000
PROPANE	C3	33.801	29.523	26.163
I-BUTANE	iC4	15.815	16.399	16.135
N-BUTANE	nC4	32.091	32.069	32.739
I-PENTANE	iC5	7.403	8.590	9.375
N-PENTANE	nC5	5.389	6.187	6.825
HEXANES PLUS	C6+	5.382	7.187	8.699
TOTALS:		**100.000**	**100.000**	**100.000**

Value of "0.000" in fractional interpreted as below detectable limit.

Calculated Properties

SCF/Gal (Ideal)	SCF/Gal (Real)	Mol Weight	Relative Density (60/60)	Vapor Pressure 100F, psia	Reid VP Equivalent, psi
31.871	30.862	56.972	0.572	94.4	89.9

Pantechs Laboratories, Inc. - Order: 780-4229 - Order Date: 2/16/2023

Order Description: North Hobbs RCF, Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	**Pressure**	85 psig
Location	North Hobbs RCF	**Sample Temp**	N/A
Site	Surge Tank	**Atm Temp**	24 F
Site Type	Tank	**Collection Date**	02/16/2023
Sample Point	Propane Liquid	**Collection Time**	9:40 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID		**Pressure Base**	14.650 psi
Purchaser		**Temperature Base**	60 F
Fluid	Liquid	**Container(s)**	PL2210

GPA 2177 Liquid Fractional Analysis

COMPOUND	FORMULA	MOL%	VOL%	WT%
NITROGEN	N2	0.009	0.004	0.006
CARBON DIOXIDE	CO2	0.006	0.004	0.006
HYDROGEN SULFIDE	H2S	0.000	0.000	0.000
METHANE	C1	0.011	0.007	0.004
ETHANE	C2	1.799	1.747	1.233
PROPANE	C3	98.071	98.107	98.596
I-BUTANE	iC4	0.073	0.087	0.097
N-BUTANE	nC4	0.011	0.013	0.015
I-PENTANE	iC5	0.003	0.004	0.005
N-PENTANE	nC5	0.002	0.003	0.003
HEXANES PLUS	C6+	0.015	0.024	0.035
TOTALS:		**100.000**	**100.000**	**100.000**

Value of "0.000" in fractional interpreted as below detectable limit.

Calculated Properties

SCF/Gal (Ideal)	SCF/Gal (Real)	Mol Weight	Relative Density (60/60)	Vapor Pressure 100F, psia	Reid VP Equivalent, psi
36.504	35.877	43.862	0.504	200.0	191.1

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1	Reason why this event was beyond Operator's control:
	The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable breakdown of equipment or process that was beyond the owner/operator's control, and did not stem from activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. It is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare is regularly monitored to the ensure flame is lit and meeting opacity requirements. Internal OXY compression equipment failure procedures ensure that upon a compressor unit shutdown, a production tech is promptly notified and is instructed to assess the issue as soon as possible in order to take prompt corrective action and minimize emissions. Upon arrival, production tech must assess whether compressor shutdown is due to damage and repair is needed, or whether there are other reasons. In this case, we lost all 4 compressors due to rate of gas coming into the plant,Pressure building up caused other trains to go down. . We never know when a transmitter will go into default.We called the field to back out gas got the compressors back online as soon as we could.

2	Steps Taken to limit duration and magnitude of venting or flaring:
	It is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. In this case, the steps taken to limit duration and magnitude of flaring was for Oxy production techs to quickly respond to the compressor alarm, diagnose the issue, and make the necessary calls to seek additional assistance. By working together, Oxy technicians were able to troubleshoot the issue and restart the unit back to normal working service. We called the field to block out gas coming into the plant untill we were able to restartr all 4 compressors

3	Corrective Actions taken to eliminate the cause and reoccurrence of venting or flaring:
	The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable breakdown of equipment or process that was beyond the owner/operator's control, and did not stem from activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. It is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. Oxy cannot take any corrective actions to eliminate the cause and potential reoccurrence of compressor malfunctions as notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. Oxy continually strives to maintain and operate its facility equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events. The only actions that Oxy can take and handle that is within its control, is to continue with its compression equipment preventative maintenance program for this facility’s compression equipment.

CO2%	88.02%	
HC%	11.98%	
Flare Volume	2847	mscfd
HC Volume	341.0706	mscfd
CO2 Volume	2505.929	mscfd

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

DEFINITIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 425232
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

DEFINITIONS

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application:

- this application's operator, hereinafter "this operator";
- venting and/or flaring, hereinafter "vent or flare";
- any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";
- the statements in (and/or attached to) this, hereinafter "the statements in this";
- and the past tense will be used in lieu of mixed past/present tense questions and statements.

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QUESTIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 425232
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

QUESTIONS

Prerequisites	
Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.	
Incident ID (n#)	*Unavailable.*
Incident Name	*Unavailable.*
Incident Type	**Flare**
Incident Status	*Unavailable.*
Incident Facility	**[fKJ1517634129] NORTH HOBBS RECOMPRESSION FACILITY & GAS PLANT**
Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section) that are assigned to your current operator can be amended with this C-129A application.	

Determination of Reporting Requirements	
Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide addional guidance.	
Was this vent or flare caused by an emergency or malfunction	Yes
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	No
Is this considered a submission for a vent or flare event	**Yes, major venting and/or flaring of natural gas.**
An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during venting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.	
Was there **at least 50 MCF** of natural gas vented and/or flared during this event	Yes
Did this vent or flare result in the release of **ANY** liquids (not fully and/or completely flared) that reached (or has a chance of reaching) the ground, a surface, a watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water	No
Was the vent or flare within an incorporated municipal boundary or withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

Equipment Involved	
Primary Equipment Involved	*Not answered.*
Additional details for Equipment Involved. Please specify	*Not answered.*

Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	6
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	5,270
Carbon Dioxide (C02) percentage, if greater than one percent	87
Oxygen (02) percentage, if greater than one percent	0
If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.	
Methane (CH4) percentage quality requirement	*Not answered.*
Nitrogen (N2) percentage quality requirement	*Not answered.*
Hydrogen Sufide (H2S) PPM quality requirement	*Not answered.*
Carbon Dioxide (C02) percentage quality requirement	*Not answered.*
Oxygen (02) percentage quality requirement	*Not answered.*

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QUESTIONS (continued)

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 425232
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	12/09/2024
Time vent or flare was discovered or commenced	08:53 AM
Time vent or flare was terminated	09:50 AM
Cumulative hours during this event	1

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	Cause: Equipment Failure | Gas Compressor Station | Natural Gas Flared | Released: 342 Mcf | Recovered: 0 Mcf | Lost: 342 Mcf.
Other Released Details	Cause: Equipment Failure | Gas Compressor Station | Carbon Dioxide | Released: 2,505 Mcf | Recovered: 0 Mcf | Lost: 2,505 Mcf.
Additional details for Measured or Estimated Volume(s). Please specify	CO2% 88.02% HC % 11.98% Flare Volume 2847 MCFD HC Volume 341.07 MCFD CO2 Volume 2505 MCFD
Is this a gas only submission (i.e. only significant Mcf values reported)	**Yes, according to supplied volumes this appears to be a "gas only" report.**

Venting or Flaring Resulting from Downstream Activity	
Was this vent or flare a result of downstream activity	No
Was notification of downstream activity received by this operator	No
Downstream OGRID that should have notified this operator	*Not answered.*
Date notified of downstream activity requiring this vent or flare	
Time notified of downstream activity requiring this vent or flare	*Not answered.*

Steps and Actions to Prevent Waste	
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control	True
Please explain reason for why this event was beyond this operator's control	The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable breakdown of equipment or process that was beyond the owner/operator's control, and did not stem from activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. It is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare is regularly monitored to the ensure flame is lit and meeting opacity requirements. Internal OXY compression equipment failure procedures ensure that upon a compressor unit shutdown, a production tech is promptly notified and is instructed to assess the issue as soon as possible in order to take prompt corrective action and minimize emissions. Upon arrival, production tech must assess whether compressor shutdown is due to damage and repair is needed, or whether there are other reasons. In this case, we lost all 4 compressors due to rate of gas coming into the plant, Pressure building up caused other trains to go down. We never know when a transmitter will go into default. We called the field to back out gas got the compressors back online as soon as we could.
Steps taken to limit the duration and magnitude of vent or flare	It is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. In this case, the steps taken to limit duration and magnitude of flaring was for Oxy production techs to quickly respond to the compressor alarm, diagnose the issue, and make the necessary calls to seek additional assistance. By working together, Oxy technicians were

	able to troubleshoot the issue and restart the unit back to normal working service. We called the field to back out gas
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable breakdown of equipment or process that was beyond the owner/operator's control, and did not stem from activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. It is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. Oxy cannot take any corrective actions to eliminate the cause and potential reoccurrence of compressor malfunctions as notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. Oxy continually strives to maintain and operate its facility equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events. The only actions that Oxy can take and handle that is within its control, is to continue with its compression equipment preventative maintenance program for this facility's compression equipment.

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ACKNOWLEDGMENTS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 425232
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

ACKNOWLEDGMENTS

☑	I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC.
☑	I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record.
☑	I hereby certify the statements in this amending report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act.
☑	I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment.
☑	I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.

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CONDITIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 425232
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

CONDITIONS

Created By	Condition	Condition Date
srojas	If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	1/27/2025