PIONEER NATURAL RESOURCES USA, INC. O'BRIEN 36-43H TANK BATTERY 30 TAC §106.261/262 ANALYSIS

EPN	FUG		VRU		VRU		LOAD1/FL-1		LOAD2		Total Emissions					30 TAC 106.261/262 Emission Limit		In	
FIN	FUG		TANK1 - TANK5		TANK6 - TANK10		LOAD1		LOAD2										
	Hourly	Annual	Hourly	Annual	Hourly	Annual	Hourly	Annual	Hourly	Annual	Hourly	Annual	L	D	K	Hourly	Annual		In Compliance
Component	(lb/hr)	(T/yr)	(lb/hr)	(T/yr)	(lb/hr)	(T/yr)	(lb/hr)	(T/yr)	(lb/hr)	(T/yr)	(lb/hr)	(T/yr)	(mg/m ³)	ft		(lb/hr)	(T/yr)	Hourly?	Annual?
Hydrogen Sulfide	0.00008	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	0.00005	0.0005	0.0018	0.0006	0.0022	10.0	3,000	8.00	1.25	5.48	Yes	Yes
Propane (C3)	0.7842	3.4346	0.0000	0.0000	0.0000	0.0000	0.8213	2.7086	0.0284	0.1011	1.6338	6.2442		3,000	8.00	6.00	10.00	Yes	Yes
Butanes (C4)	0.4332	1.8973	0.0000	0.0000	0.0000	0.0000	0.5628	1.8563	0.0029	0.0102	0.9989	3.7638		3,000	8.00	6.00	10.00	Yes	Yes
Pentanes (C5)	0.2069	0.9060	0.0000	0.0000	0.0000	0.0000	0.2211	0.7293	0.0001	0.0005	0.4281	1.6358	350.0	3,000	8.00	6.00	5.00	Yes	Yes
Hexanes (C6)	0.2090	0.9153	0.0000	0.0000	0.0000	0.0000	0.1175	0.3877	0.0001	0.0002	0.3266	1.3032	176.0	3,000	8.00	6.00	5.00	Yes	Yes
Heptanes (C7)	0.1170	0.5123	0.0000	0.0000	0.0000	0.0000	0.0292	0.0962	0.0000001	0.000001	0.1461	0.6085	350.0	3,000	8.00	6.00	5.00	Yes	Yes
Octanes (C8)	0.1307	0.5723	0.0000	0.0000	0.0000	0.0000	0.0116	0.0383	0.00000	0.00000	0.1423	0.6107	350.0	3,000	8.00	6.00	5.00	Yes	Yes
Nonanes (C9)	0.0965	0.4225	0.0000	0.0000	0.0000	0.0000	0.0028	0.0094	0.0000	0.0000	0.0993	0.4319	1,050.0	3,000	8.00	6.00	5.00	Yes	Yes
n-Decane (C10)	0.0871	0.3815	0.0000	0.0000	0.0000	0.0000	0.0008	0.0027	0.0000	0.0000	0.0879	0.3842		3,000	8.00	1.00	4.38	Yes	Yes
Undecanes (C11)	0.0848	0.3716	0.0000	0.0000	0.0000	0.0000	0.0002	0.0008	0.0000	0.0000	0.0851	0.3724		3,000	8.00	1.00	4.38	Yes	Yes
Dodecane	0.0766	0.3356	0.0000	0.0000	0.0000	0.0000	0.0001	0.0002	0.0000	0.0000	0.0767	0.3358		3,000	8.00	1.00	4.38	Yes	Yes
Tridecane	0.0775	0.3396	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	0.0775	0.3396		3,000	8.00	1.00	4.38	Yes	Yes
Tetradecane	0.0666	0.2915	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0666	0.2915		3,000	8.00	1.00	4.38	Yes	Yes
Pentadecane	0.0632	0.2767	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0632	0.2767		3,000	8.00	1.00	4.38	Yes	Yes
Hexadecane	0.0519	0.2273	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0519	0.2273		3,000	8.00	1.00	4.38	Yes	Yes
Heptadecane	0.0524	0.2293	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0524	0.2293		3,000	8.00	1.00	4.38	Yes	Yes
Octadecane	0.0476	0.2084	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0476	0.2084		3,000	8.00	1.00	4.38	Yes	Yes
Nonadecane	0.0464	0.2033	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0464	0.2033		3,000	8.00	1.00	4.38	Yes	Yes
Eicosane	0.0432	0.1893	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0432	0.1893		3,000	8.00	1.00	4.38	Yes	Yes
Heneicosane	0.0374	0.1638	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0374	0.1638		3,000	8.00	1.00	4.38	Yes	Yes
Docosane	0.0385	0.1686	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0385	0.1686		3,000	8.00	1.00	4.38	Yes	Yes
Tricosane	0.0340	0.1489	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0340	0.1489		3,000	8.00	1.00	4.38	Yes	Yes
Tetracosane	0.0299	0.1311	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0299	0.1311		3,000	8.00	1.00	4.38	Yes	Yes
Pentacosane	0.0329	0.1441	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0329	0.1441		3,000	8.00	1.00	4.38	Yes	Yes
Hexacosane	0.0233	0.1023	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0233	0.1023		3,000	8.00	1.00	4.38	Yes	Yes
Heptacosane	0.0300	0.1313	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0300	0.1313		3,000	8.00	1.00	4.38	Yes	Yes
Octacosane	0.0244	0.1071	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0244	0.1071		3,000	8.00	1.00	4.38	Yes	Yes
Nonacosane	0.0216	0.0944	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0216	0.0944		3,000	8.00	1.00	4.38	Yes	Yes
Triacontane	0.0241	0.1057	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0241	0.1057		3,000	8.00	1.00	4.38	Yes	Yes
Dotriacontane	0.3550	1.5550	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3550	1.5550		3,000	8.00	1.00	4.38	Yes	Yes
Benzene	0.0025	0.0110	0.0000	0.0000	0.0000	0.0000	0.0010	0.0032	0.0003	0.0011	0.0038	0.0153	3.0	3,000	8.00	0.38	1.64	Yes	Yes
Toluene	0.0059	0.0258	0.0000	0.0000	0.0000	0.0000	0.0010	0.0032	0.0001	0.0002	0.0069	0.0292	188.0	3,000	8.00	6.00	5.00	Yes	Yes
Ethylbenzene	0.0018	0.0079	0.0000	0.0000	0.0000	0.0000	0.0001	0.0003	0.000002	0.00001	0.0019	0.0083	434.0	3,000	8.00	6.00	5.00	Yes	Yes
Xylenes	0.0109	0.0476	0.0000	0.0000	0.0000	0.0000	0.0006	0.0020	0.00001	0.00004	0.0115	0.0496	434.0	3,000	8.00	6.00	5.00	Yes	Yes
VOC	3.3468	14.6590	0.0000	0.0000	0.0000	0.0000	1.7702	5.8382	0.0319	0.1134	5.1489	20.6105							

James Qu

From: Richa Karanjekar < RKaranjekar@apexcos.com>

Sent: Thursday, August 15, 2019 11:37 AM

To: James Qu

Subject: RE: [EXT] TCEQ Air Permit_permit number: 157780 project number: 304512, O'brien

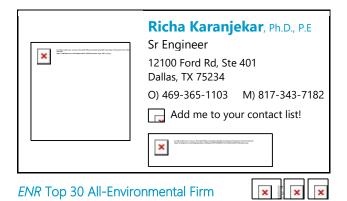
36-43H Tank Battery

Attachments: OBrien 36-43H TB Calculations_106-261-262 Analysis.pdf

Dear Mr. Qu,

Please find attached the 106.261/262 table for O Brien 36-43H Tank Battery (CN600130447, RN108454703). Please let me know if you need any additional information from our side.

Thanks, Richa



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From: James Qu <James.Qu@tceq.texas.gov> Sent: Thursday, August 15, 2019 11:35 AM

To: Richa Karanjekar < RKaranjekar@apexcos.com >

Subject: [EXT] TCEQ Air Permit_permit number: 157780 project number: 304512, O'brien 36-43H Tank Battery

CAUTION

Hello Richa,

Per our conversation, this email regarding the permit number: 157780 project number: 304512, O'brien 36-43H Tank Battery. I think the 30 TAC 106.261/262 table is missing, which is supposed to be displayed in Section 5 in this application file. So, please send me a copy of this page and I can continue processing.

Thank you,

James Qu Environmental Permit Specialist Air Permits Division; Rules and Registrations Section Texas Commission on Environmental Quality (TCEQ) (512) 239-1287

james.qu@tceq.texas.gov



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