

**Data Base Summary (Statement of Basis)**  
**Title V Permit**

**Type of Permit Action:** New Title V permit

PSD or Not	Minor or Title V	Portable or Not
Minor (not PSD)	Major-Title V	Stationary

**Facility:** Spartan Compressor Station  
**Company:** XTO Energy Inc.  
**Facility Type:** O&G-Compressor Station  
**Permit No. (NSR)** 7681-M1; P293  
**Operating Permit No. (TV)** N/A  
**IDEA ID No.** 38274 - PRT20210001  
**AIRS ID No.** 350151881  
**SIC CODE:** 1311: Crude petroleum and natural gas  
**Permit Writer:** Joseph Kimbrell

**Application Notarized Date:** May 31, 2021  
**Receive Date:** September 7, 2021  
**Timeliness of TV Application:** N/A  
**Ruled Incomplete:** N/A  
**Ruled Complete:** October 26, 2021  
**APP. sent to Field Office:** NR, Covid procedures  
**PSD APP. Sent to EPA:** N/A  
**Public Notice Date&Newspaper:** February 21, 2023/Carlsbad Current-Argus  
**Comments Due:** March 23, 2023  
**Analysis Review Begins:** NR  
**Analysis Review Ends:** NR  
**Public Hearing:** N/A  
**Proposed Permit to EPA Acknowledged:** 3/6/23 to 4/20/23  
**Permit Due:** April 27, 2023  
**Permit Issued:** TBD  
**PSD Permit to EPA:** N/A

**Facility Location:** This facility is located approximately 13.5 miles E of Malaga in Eddy County, NM  
**UTM ZONE:** 13 ; Datum: NAD83  
**UTM Easting:** 609500 meters  
**UTM Northing:** 3,563,560 meters  
**Elevation:** 3,434 feet  
**County:** Eddy  
**In a Sensitive Area:** No

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**Consultant Name:** Brett Zogas, Trinity Consultants, Inc.  
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**Consultant Address:** 1800 W Loop S, Ste. 1000  
Houston, TX 77027

**Title V Affected Program\* Notification:**

Affected Program	Distance	Units	Date Letter Sent
Class I - Carlsbad Caverns National Park	44.4	km	Not required
State - Texas	13	km	2/21/2023

\*As defined by 20.2.70.7.B: All States, local air pollution control programs, and Indian Tribes and Pueblos, that are within 50 miles (80.5 km) of the source.

**PART II - FACILITY SPECIFICATIONS**

**Table 102.A: Total Pollutant Emissions from Entire Facility:**

Pollutant	Emissions (tons per year)	Emission Type from Permit 7681M2
Nitrogen Dioxide	214.0	Allowable
Carbon Monoxide	242.0	Allowable
Volatile Organic Compounds (VOC)	269.0	Allowable
Sulfur Dioxide	22.0	Allowable
Particulate Matter (10 microns or less)	17.0	Allowable
Particulate Matter (2.5 microns or less)	17.0	Allowable
Greenhouse Gas (GHG), CO <sub>2e</sub>	231,148	Potential

Note: Total Potential Pollutant Emissions in Table 102.A may include fugitive emissions; routine or predictable, startup, shutdown, and maintenance emissions (SSM); and permitted malfunction allowances if these are a sources of regulated air pollutants from this facility.

**Table 102.B: Total Potential Hazardous Air Pollutants (HAPs)\***

Pollutant	Emissions(tons per year)	Emission Type
Formaldehyde	18	Potential
n-Hexane	3.4	Potential
Benzene	1.2	Potential
Acetaldehyde	5.3	Potential
Total HAP	30.4	Potential

\* HAP emissions are included in the Table 102.A VOC emissions total.

\*\* Total HAP emissions may not agree with the sum of individual HAPs because only individual HAPs emitted at a rate greater than 1.0 ton per year are listed in Table 102.B.

Unit # (Subject Item ID)	SI Description	Primary	Secondary	Control Equipment Mfg & model (or equivalent)
Facility Inlet	Facility Inlet	Flares (FL1 - FL3)		
OT1-OT4	Condensate Tank	Flares (FL1 - FL3)		
WT1-WT2	Produced water tank	Flares (FL1 - FL3)		
SKTK1/SKTK2	Skim tank	Flares (FL1 - FL3)		
DEHY1-DEHY3	TEG Dehydrator	BTEX Condenser (COND1-COND3)	Flares (FL1 - FL3)	
LPS	Low Pressure Separator	Vapor Recovery Unit (VRU1-VRU2)	Flares (FL1 - FL3)	
ENG1-ENG6,	Compressor Engines	Catalytic Oxidation (CAT1 - CAT6)		
ENG11-ENG12	Compressor Engines	Catalytic Oxidation (CAT11 - CAT12)		
ENG7-ENG9	Compressor Engines	Catalytic Oxidation (CAT7 - CAT9)		

**Equipment Specifications (Active/Alternative):**

Unit No.	Unit Type	Make	Model No.	Serial No.	Yr of Construction	Yr of Manufacture	Operating Rate Max/Site	Operating Capacity Max/Site	Subject Item Status	Subject Item Description
ENG1	4SLB RICE	Caterpillar	G3616	ZZY00851	1/1/2019	1/1/2019	5000	5000	Active	Natural Gas Compressor Engine
ENG2	4SLB RICE	Caterpillar	G3616	ZZY00824	12/1/2019	12/1/2019	5000	5000	Active	Natural Gas Compressor Engine
ENG3	4SLB RICE	Caterpillar	G3616	ZZY00811	1/1/2019	1/1/2019	5000	5000	Active	Natural Gas Compressor Engine

**Equipment Specifications (Active/Alternative):**

Unit No.	Unit Type	Make	Model No.	Serial No.	Yr of Construction	Yr of Manufacture	Operating Rate Max/Site	Operating Capacity Max/Site	Subject Item Status	Subject Item Description
ENG4	4SLB RICE	Caterpillar	G3616	ZZY00800	2/1/2019	2/1/2019	5000	5000	Active	Natural Gas Compressor Engine
ENG5	4SLB RICE	Caterpillar	G3616	ZZY00820	1/1/2019	1/1/2019	5000	5000	Active	Natural Gas Compressor Engine
ENG6	4SLB RICE	Caterpillar	G3616	ZZY00825	11/1/2018	11/1/2018	5000	5000	Active	Natural Gas Compressor Engine
ENG7	4SLB RICE	Caterpillar	G3616	TBD	TBD	TBD	5000	5000	Active	Natural Gas Compressor Engine
ENG8	4SLB RICE	Caterpillar	G3616	TBD	TBD	TBD	5000	5000	Active	Natural Gas Compressor Engine
ENG9	4SLB RICE	Caterpillar	G3616	TBD	TBD	TBD	5000	5000	Active	Natural Gas Compressor Engine
ENG11	4SLB RICE	Caterpillar	3516J TA	N6W01024	11/1/2018	11/1/2018	1380	1380	Active	Natural Gas Compressor Engine
ENG12	4SLB RICE	Caterpillar	3516J TA	N6W01034	10/1/2018	10/1/2018	1380	1380	Active	Natural Gas Compressor Engine
HTR1	Auxiliary Heater	Wenco EC	SB2012H	1118-939	2019	2019	0.75 MMBtu/hr	0.75 MMBtu/hr	Active	Fuel Line Heater
RB1	Glycol Regenerator Heater	Flameco	N/A	1808 03C	2018	2018	2.0 MMBtu/hr	2.0 MMBtu/hr	Active	Glycol Regenerator Reboiler
RB2	Glycol Regenerator Heater	Flameco	N/A	1808 34D	2019	2019	2.0 MMBtu/hr	2.0 MMBtu/hr	Active	Glycol Regenerator Reboiler
RB3	Glycol Regenerator Heater	TBD	TBD	TBD	TBD	TBD	2.0 MMBtu/hr	2.0 MMBtu/hr	Active	Glycol Regenerator Reboiler

**Equipment Specifications (Active/Alternative):**

Unit No.	Unit Type	Make	Model No.	Serial No.	Yr of Construction	Yr of Manufacture	Operating Rate Max/Site	Operating Capacity Max/Site	Subject Item Status	Subject Item Description
FL1	Dual Tip Flare	Tornado	Guyed Dual Air Assist	14275	2019	2019	70 MMscf/d	70 MMscf/d	Active	Flare 1
FL2	Dual Tip Flare	Tornado	Guy Dual Air Assist	14277B	2019	2019	70 MMscf/d	70 MMscf/d	Active	Flare 2
FL3	Dual Tip Flare	Tornado	TBD	TBD	TBD	TBD	70 MMscf/d	70 MMscf/d	Active	Flare 3
SKT1	Skim Tanks	Palmer	N/A	ST1828297	2019	2019	1000 bbl	1000 bbl	Active	Skim Tank
SKT2	Skim Tanks	Palmer	N/A	TBD	TBD	TBD	1000 bbl	1000 bbl	Active	Skim Tank (Backup)
OT1	Crude Oil Tank	Palmer	N/A	ST1828300	2019	2019	500 bbl	500 bbl	Active	Condensate Tank
OT2	Crude Oil Tank	Palmer	N/A	ST1828301	2019	2019	500 bbl	500 bbl	Active	Condensate Tank
OT3	Crude Oil Tank	Palmer	N/A	ST1828302	2019	2019	500 bbl	500 bbl	Active	Condensate Tank
OT4	Crude Oil Tank	Palmer	N/A	ST1828303	2019	2019	500 bbl	500 bbl	Active	Condensate Tank
WT1	Produced Water Tank	Palmer	N/A	ST1828298	2019	2019	500 bbl	500 bbl	Active	Produced Water Tank
WT2	Produced Water Tank	Palmer	N/A	ST1828299	2019	2019	500 bbl	500 bbl	Active	Produced Water Tank
VRU1	Vapor Recovery Unit	TBD	N/A	N/A	2019	2019	125 HP	125 HP	Active	Low Pressure Separator VRU #1
VRU2	Vapor Recovery Unit	TBD	N/A	N/A	2019	2019	125 HP	125 HP	Active	Low Pressure Separator VRU Backup
DEHY1	TEG Dehydrator with Condenser	Jatco	N/A	18335	2019	2019	80 MMscfd	80 MMscfd	Active	TEG Dehydrator with Condenser

**Equipment Specifications (Active/Alternative):**

Unit No.	Unit Type	Make	Model No.	Serial No.	Yr of Construction	Yr of Manufacture	Operating Rate Max/Site	Operating Capacity Max/Site	Subject Item Status	Subject Item Description
DEHY2	TEG Dehydrator with Condenser	Jatco	N/A	18335	TBD	TBD	80 MMscfd	80 MMscfd	Active	TEG Dehydrator with Condenser
DEHY3	TEG Dehydrator with Condenser	TBD	N/A	TBD	TBD	TBD	80 MMscfd	80 MMscfd	Active	TEG Dehydrator with Condenser
LPS	Low Pressure Separator	Palmer	N/A	17135-101	2019	2019	N/A	N/A	Active	Low Pressure Separator
LOAD	Truck Loading	N/A	N/A	N/A	N/A	N/A	1829 bbl/d	1829 bbl/d	Active	Condensate Truck Loading
LOAD2	Truck Loading	N/A	N/A	N/A	N/A	N/A	521 bbl/d	521 bbl/d	Active	Water Truck Loading
FUG	Fugitives	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Active	Fugitive Emissions
SSM	Startup, shutdown and Maintenance	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Active	SSM Activities
Malfunction	Malfunction	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Active	Malfunction Emissions

**Equipment Specifications (Inactive/Retired/Removed):**

Unit No.	Unit Type	Make	Model No.	Serial No.	Yr of Construction	Yr of Manufacture	Operating Rate Max/Site	Operating Capacity Max/Site	Subject Item Status	Subject Item Description
TRMT1 VRT	Vapor Recovery System	TBD	TBD	TBD			/	/	Removed	Vapor Recovery Tower (removed)

**Emissions: Pollutant Permitted** (Allowable and SSM) Emissions per piece of equipment or Subject Item as represented by applicant.

Unit No.	NO <sub>x</sub> (pph)	<sup>1</sup> NO <sub>x</sub> (tpy)	CO (pph)	CO (tpy)	VOC (pph)	VOC (tpy)	SO <sub>2</sub> (pph)	SO <sub>2</sub> (tpy)	TSP (pph)	TSP (tpy)	PM <sub>10</sub> (pph)	PM <sub>10</sub> (tpy)	PM <sub>2.5</sub> (pph)	PM <sub>2.5</sub> (tpy)
ENG1	4.1	18.1	5.0	21.8	3.9	17.2	<	2.1	<	1.6	<	1.6	<	1.6
ENG2	4.1	18.1	5.0	21.8	3.9	17.2	<	2.1	<	1.6	<	1.6	<	1.6
ENG3	4.1	18.1	5.0	21.8	3.9	17.2	<	2.1	<	1.6	<	1.6	<	1.6
ENG4	4.1	18.1	5.0	21.8	3.9	17.2	<	2.1	<	1.6	<	1.6	<	1.6
ENG5	4.1	18.1	5.0	21.8	3.9	17.2	<	2.1	<	1.6	<	1.6	<	1.6
ENG6	4.1	18.1	5.0	21.8	3.9	17.2	<	2.1	<	1.6	<	1.6	<	1.6
ENG7	4.1	18.1	2.9	12.8	2.0	8.7	<	2.1	<	1.7	<	1.7	<	1.7
ENG8	4.1	18.1	2.9	12.8	2.0	8.7	<	2.1	<	1.7	<	1.7	<	1.7
ENG9	4.1	18.1	2.9	12.8	2.0	8.7	<	2.1	<	1.7	<	1.7	<	1.7
ENG11	1.9	8.3	1.0	4.5	1.4	6.3	<	<	<	<	<	<	<	<
ENG12	1.9	8.3	1.0	4.5	1.4	6.3	<	<	<	<	<	<	<	<
HTR1	<	<	<	<	<	<	<	<	<	<	<	<	<	<
RB1	<	<	<	<	0.0	0.1	<	<	<	<	<	<	<	<
RB2	<	<	<	<	0.0	0.1	<	<	<	<	<	<	<	<
RB3	<	<	<	<	0.0	0.1	<	<	<	<	<	<	<	<
FL1-FL3 Pilot	1.4	6.2	2.8	12.4	1.9	8.5	0.0	0.1	0.1	0.3	0.1	0.3	0.1	0.3
FL1-FL3 Norm	2.4	9.5	4.8	19.0	16.0	32.6	0.3	1.1	0.0	0.2	0.0	0.2	0.0	0.2
SKT1	-	-	-	-	0.0	0.0	-	-	-	-	-	-	-	-
SKT2	-	-	-	-	0.0	0.0	-	-	-	-	-	-	-	-
OT1	-	-	-	-	0.0	0.0	-	-	-	-	-	-	-	-
OT2	-	-	-	-	0.0	0.0	-	-	-	-	-	-	-	-
OT3	-	-	-	-	0.0	0.0	-	-	-	-	-	-	-	-
OT4	-	-	-	-	0.0	0.0	-	-	-	-	-	-	-	-
WT1	-	-	-	-	0.0	0.0	-	-	-	-	-	-	-	-
WT2	-	-	-	-	0.0	0.0	-	-	-	-	-	-	-	-
DEHY1	-	-	-	-	0.0	0.0	-	-	-	-	-	-	-	-
DEHY2	-	-	-	-	0.0	0.0	-	-	-	-	-	-	-	-
DEHY3	-	-	-	-	0.0	0.0	-	-	-	-	-	-	-	-
LPS	-	-	-	-	0.0	0.0	-	-	-	-	-	-	-	-
LOAD	-	-	-	-	63.8	10.1	-	-	-	-	-	-	-	-
LOAD2	-	-	-	-	0.5	0.1	-	-	-	-	-	-	-	-
FUG	-	-	-	-	5.1	22.2	-	-	-	-	-	-	-	-
ROAD	-	-	-	-	-	-	-	-	<	<	<	<	<	<

- 1 Nitrogen dioxide emissions include all oxides of nitrogen expressed as NO<sub>2</sub>.
  - 2 Title V annual fee assessments are based on the sum of allowable tons per year emission limits in Sections A106 and A107.
  - 3 Compliance with emergency flare emission limits is demonstrated by limiting combustion to pilot and/or purge gas only.
- “-” indicates the application represented emissions are not expected for this pollutant.
- “<” indicates that the application represented the uncontrolled mass emission rates are less than 1.0 pph. or 1.0 tpy. for this emissions unit and this air pollutant. The Department determined that allowable mass emission limits were not required for this unit and this pollutant.
- “\*” indicates hourly emission limits are not appropriate for this operating situation.

**Pollutant Unpermitted (Potential) Emissions (Non-regulated, without permitted emission limits)**

Unit No.	NO <sub>x</sub> (pph)	<sup>1</sup> NO <sub>x</sub> (tpy)	CO (pph)	CO (tpy)	VOC (pph)	VOC (tpy)	SO <sub>2</sub> (pph)	SO <sub>2</sub> (tpy)	TSP (pph)	TSP (tpy)	PM <sub>10</sub> (pph)	PM <sub>10</sub> (tpy)	PM <sub>2.5</sub> (pph)	PM <sub>2.5</sub> (tpy)	H <sub>2</sub> S (pph)	H <sub>2</sub> S (tpy)
TOTAL																

**ALLOWABLE HAPS EMISSIONS FROM TEMPO, Table has the most common HAPS – it is not inclusive of all HAPS that might be entered in TEMPO.** All emissions are in tons/year

Unit No.	Total HAPS (tpy)	Acetal Dehyde (tpy)	Acrolein (tpy)	Benzene (tpy)	Cyclo Hexane (tpy)	Hexane (tpy)	Ethyl benzene (tpy)	Formalde hyde (tpy)	Hexane (tpy)	Methanol (tpy)	Toluene (tpy)	Xylene (tpy)
<b>TOTAL*</b>												

\* Totals are for information only and may not match the totals in the table “TOTAL HAPS and NM TAPS”

**POTENTIAL HAPS EMISSIONS FROM TEMPO, Table has the most common HAPS – it is not inclusive of all HAPS that might be entered in TEMPO.** All emissions are in tons/year

Unit No.	Total HAPS (tpy)	Acetaldehyde (tpy)	Benzene (tpy)	n-Hexane (tpy)	Formaldehyde (tpy)
ENG1	2.7	0.5	0.0	0.0	2.3
ENG2	2.7	0.5	0.0	0.0	2.3
ENG3	2.7	0.5	0.0	0.0	2.3
ENG4	2.7	0.5	0.0	0.0	2.3
ENG5	2.7	0.5	0.0	0.0	2.3



ENG6	2.7	0.5	0.0	0.0	2.3
ENG7	1.4	0.7	0.0	0.0	0.7
ENG8	1.4	0.7	0.0	0.0	0.7
ENG9	1.4	0.7	0.0	0.0	0.7
ENG11	1.4	0.1	0.0	0.0	1.2
ENG12	1.4	0.1	0.0	0.0	1.2
HTR1	0.0	0.0	0.0	0.0	0.0
RB1	0.0	0.0	0.0	0.0	0.0
RB2	0.0	0.0	0.0	0.0	0.0
RB3	0.0	0.0	0.0	0.0	0.0
FL1-FL3 Pilot	0.1	0.0	0.0	0.1	0.0
FL1-FL3 Norm	2.1	0.0	0.4	1.3	0.0
FL1-FL3 SSM	1.2	0.0	0.1	1.0	0.0
DEHY1	0.3	0.0	0.1	0.1	0.0
DEHY2	0.3	0.0	0.1	0.1	0.0
DEHY3	0.3	0.0	0.1	0.1	0.0
DEHY1 SSM	0.2	0.0	0.1	0.0	0.0
DEHY2 SSM	0.2	0.0	0.1	0.0	0.0
DEHY3 SSM	0.2	0.0	0.1	0.0	0.0
LOAD	0.4	0.0	0.0	0.0	0.0
LOAD2	0.0	0.0	0.0	0.0	0.0
FUG	1.8	0.0	0.2	0.5	0.0
TOTAL*	30.4	5.3	1.2	3.4	18.0

\* Totals are for information only and may not match the totals in the table "TOTAL HAPS and NM TAPS"