API	API Std 650 Storage Tank Data Sheet	Data Sheet Status: Design data Page 1 of 8

* For boxes marked with *, if blank, Mfr. shall determine and submit as per Annex L. For all lines, see Annex L for line-by-line instructions.

GENERAL Special Documentation Package Requirements: _____

Measurement Units to be used in API Std 650: SI ❑ US Customary ❑

1. Manufacturer* _____ Contract No.* _____
   Address* _____
   Mfg. Serial No.* 20191375030 Year Built* 2023 Edition & Addendum to *API 650** 13th, March 2020
2. Purchaser _____ Contract No. _____
   Address _____
   Tank Designation Crude Oil Storage. +5000 bbl
3. Owner/Operator Gran Tierra Energy Location Putumayo, Colombia
4. Size Limitations* _____ Tank Diameter* 12 meters Shell Height* 7.2 meters
   Capacity: Maximum* 790.0 m³ Net Working* 757.1 m³ Criteria:* _____
5. Products Stored:
   Liquid Crude Oil Design Specific Gravity: 0.8832 at 60 °__
   Minimum Design Specific Gravity: NA at _____ °__
   Blanketing Gas_____ Vapor Pressure _____ PSIA at Max. Operating Temp.
   % Aromatic NA Suppl. Spec. NA H_2S Service? Yes ❑ No ❑ Suppl. Spec. NA
   Other Special Service Conditions? Yes ❑ No ❑ Suppl. Specs._____

DESIGN AND TESTING Purchaser to Review Design Prior to Ordering Material? Yes ❑ No ❑

6. Applicable API Standard 650 Appendices:* A ❑ B ❑ C ❑ F ❑ G ❑ H ❑ I ❑ J ❑ L ❑ M ❑ O ❑ P ❑ S ❑ U ❑ V ❑ W ❑
7. Max. Design. Temp. 93 °__ Design Metal Temp.* 8 °__ Design Liquid Level* 7.0 m
   Design Internal Pressure 18 KPa Design External Pressure 0.25 KPa Internal Pressure Combination Factor 0.4
   External Pressure Combination Factor 0.4 Maximum Fill Rate _____ Maximum Emptying Rate _____
   Flotation Considerations? Yes ❑ No ❑ Flot. Suppl. Spec:* _____ Applied Supplemental Load Spec._____
8. Seismic Design? Yes ❑ No ❑ Annex E ❑ Alternate Seismic Criteria Not Required Seismic Use Group _____
   MBE Site Class NA Vertical Seismic Design? Yes ❑ No ❑ Vertical Ground Motion Accelerator A_V: NA
   Basis of Lateral Acceleration (Select one): ❑ Mapped Seismic Parameters? S_s ____S_1 ____ S_0 ____; ❑ Site-Specific Procedures?: MCE
   Design Required? Yes ❑ No ❑; ❑ Other (Non-ASCE) Methods Not Required
   ❑ Freeboard Required for SUG I Design Roof Tie Rods @ Outer Ring?* Yes ❑ No ❑
9. Wind Velocity for non-U.S. sites, 50-yr wind speed (3-sec Gust)* 20 - 30
   Top Wind Girder Style* Angle Dimensions* 6 in x 6 in x 5/16 in Use Top Wind Girder as Walkway? Yes ❑ No ❑
   Intermediate Wind Girders?* Yes ❑ No ❑ Intermediate Wind Girder Style* Angle Dimensions* 2 1/2 in x 2 1/2 in x 1/4 in
   Check Buckling in Corroded Cond.? Yes ❑ No ❑
10. Shell Design: 1-Ft Mthd?* Yes ❑ No ❑ ; Variable-Des-Pt Mthd?* Yes ❑ No ❑ Alternate ❑; Elastic Anal. Mthd?* Yes ❑ No ❑ Alternate
    Plate Stacking Criteria* Centerline-Stacked? Yes ❑ No ❑ Flush-Stacked? Yes ❑ No ❑ Inside ❑ Outside ❑
    Plate Widths (Shell course heights) and Thicknesses * Numbers below Indicate Course Number.
    1. 3381 kg 2. 3381 kg 3. 2535 kg 4. 2535 kg 5. NA
    6. NA 7. NA 8. NA 9. NA 10. NA
    11. NA 12. NA 13. NA 14. NA 15. NA
    Joint Efficiency* 100 % Shell-to-Bottom Weld Type* full penetration butt weld Shell-to-Bottom Weld Exam Mthd* _____
    Exceptions to Seal-welded Attachments (see Section 5.1.3.7): NA

Approvals:	Revisions:	Title: By: Ck'd: Date: Drawing No.: Sheet ___ of ___

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* If box is blank, Manufacturer shall determine and submit as per Annex L.

11. Open-Top and Fixed Roofs: (See Sheet 6 for Floating Roofs) Open Top? * Yes ❑ No ❑

Fixed Roof Type* Dome-Umbrella Roof Support Columns*: Pipe ❑ Or Structural Shape ❑ NA

Cone Slope* 24.6 °. Dome or Umbrella Radius* 14.4 m Weld Joints* Fillet (Lap, Butt, Other)

Seal Weld Underside of: Lap-Joints? Yes ❑ No ❑; Seal Weld Underside of Wind Girder Joints? Yes ❑ No ❑

Gas-tight? Yes ❑ No ❑ Joint Efficiency* 100 %

Thickness* 3/16" In. Snow Load * NA App. Suppl. Load Spec.* _____ Column Lateral Load _____

Normal Venting Devices* 01, 6 in Emergency Venting Devices* NA

Free Vents in Areas Where Snow and Ice May Block Vent* NA

For Non-Frangible Roofs: Seal Weld Roof Plates to Top Angle on the Inside? Yes ❑ No ❑ ; Weld rafters to Roof Plates Yes ❑ No ❑

Roof-to-Shell Detail* Yes Radial Projection of Horizontal Component of Top Angle* Inward ❑ Outward ❑

12. Bottom: Thickness* 1/4" Style* Flat Slope* No. Weld Joint Type* single-welded full-fillet lap joint

Provide Drip Ring? Yes ❑ No ❑ Alternate Spec. NA

Annular Ring? Yes ❑ No ❑ Annular Ring: Minimum Radial Width* NA Thickness* NA

13. Foundation: Furnished by*_____ Type* _____

Soil Allow. Bearing Pressure* _____ Per Spec.* _____ Anchors: Size* _____ Qty* _____

Foundation Design Loads: Base Shear Force: Wind* _____ Seismic* _____ Overturning Moment: Wind* _____ Seismic* _____\

Ring Forces: Weight of Shell + Roof New* _____ Corroded* _____ Roof Live Load* _____ Internal Pressure* _____

Partial Vacuum* _____ Wind* _____ Seismic* _____ Hydrotest Exemption design per 7.3.6, Item 2) a) _____

Bottom Forces: Floor Wt. New* _____ Corroded* _____ Product Wt.* _____ Water Wt.* _____ Internal Pressure* _____

Partial Vacuum* _____ Other Foundation Loads* _____ Min. Projection of Fdn. Above Grade: _____

14. Exemption from hydrotest? Yes ❑ No ❑ Responsibility for Heating Water, if Required: Purchaser ❑ Manufacturer ❑

Hydro-Test Fill Height* 7.0 m Settlement Measurements Required? Yes ❑ No ❑ Extended Duration of Hydro-Test: 24 hrs

❑ Predicted Settlement Profile is Attached

Application of coating on weld joints shall be performed after hydrostatic testing is performed, unless otherwise specified to be

❑ before hydrostatic testing is performed.

Responsibility for Setting Water Quality: Purchaser ❑ Manufacturer ❑ Supplemental Test Water Quality Spec. _____

Test Water Source & Disposal Tie-In Locations _____ Hydro-Test Annex J Tank? Yes ❑ No ❑

Post-Pressure-Test Activities Required of the Manufacturer: Broom Clean ❑ Potable Water Rinse ❑ Dry Interior ❑

Other ❑ _____

15. Inspection by Designate Purchaser's inspectors. See 7.3.1.1 in Shop; Not Required in Field

Supplemental NDE Responsibility Purchaser Supplemental NDE Spec. AWS, ASME BPVC Sec IX (Purch., Mfg., Other)

Positive Material Identification? Yes ❑ No ❑ PMI Requirements:_____

Max. Plate Thickness for Shearing 3/8 in

Must Welds not exceeding 6 mm ($^1/_4$ in.) Be Multi-Pass? Yes ❑ No ❑ Must Welds greater than 6 mm ($^1/_4$ in.) Be Multi-Pass? Yes ❑ No ❑

Leak Test Mthd: Roof* See 7.3.8 Shell* See 7.3.6 Shell Noz./Manhole Reinf. Plt.* See 7.3.5

Bottom* See 7.3.3 Floating Roof Components* NA

Modify or Waive API Dimensional Tolerances (see 7.5)? No ❑ Yes ❑ Specify: Not Required

Specify Additional Tolerances, if any, and Circumferential and Vertical Measurement Locations:

- Allowable Plumbness: Not Required Measure and Record at a Minimum of ____ Locations or Every ____ m (ft) around the Tank, at the Following Shell Heights: (select one box): ❑ $^1/_3$ H, $^2/_3$ H and H ❑ Top of Each Shell Course ❑ Other: NA
- Allowable Roundness: ** NA Measure Radius and Record at a Minimum of NA Locations or Every NA m (ft) around the Tank, at the Following Shell Heights (select one box):

❑ Top of Tank, H ❑ $^1/_3$ H, $^2/_3$ H and H ❑ Top of Each Shell Course ❑ Other: NA

**See Data Sheet Instructions for the Maximum Allowable Additional Radial Tolerance.

Approvals:	Revisions:	Title:
		By: Ck'd: Date:
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16. Coatings:

Internal Coatings by: Tank Manufacturer Per Spec.* ISO 12944-5
(Not Req'd., Others, Tank Mfg.)

External Coating by: Tank Manufacturer Per Spec.* ISO 12944-5
(Not Req'd., Others, Tank Mfg.)

Under-Bottom Coating by: Tank Manufacturer Per Spec.* Not Required
(Not Req'd., Others, Tank Mfg.)

17. Cathodic Protection System? Yes ❑ No ❑ Per Spec.* API RP 651

18. Leak Detection System? Yes ❑ No ❑ Per Spec.* Not Required

19. Release Prevention Barrier? Yes ❑ No ❑ Per Spec.* Not Required

20. Tank Measurement System: Required? Yes ❑ No ❑ Type: Float and tape gauge _____

Servo gauge: _____ Hydrostatic gauge: _____ MTG multifunction gauge: _____ Other gauge: _____

Remote Capability Required? Yes ❑ No ❑

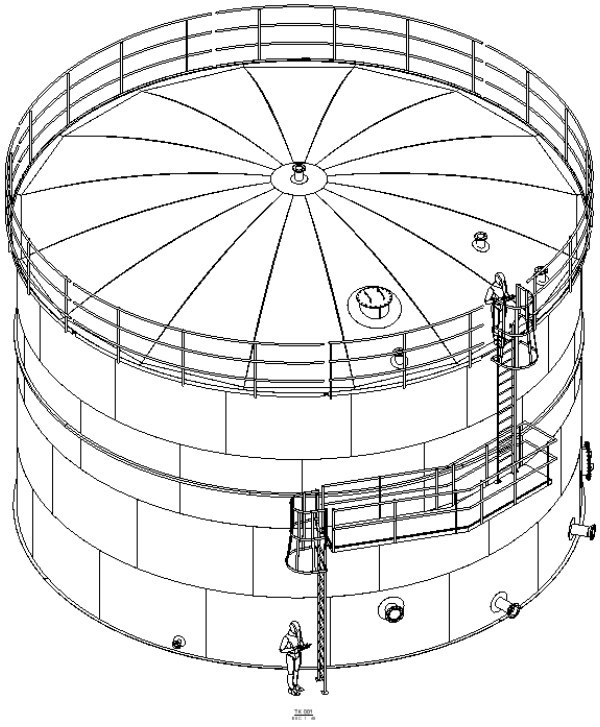
By:* _____ Per Spec.* _____

21. Weight of Tank: Full of Water* 790.0 Tons Empty* 26.21 Tons Shipping* NA Brace/Lift Spec.* NA

22. References*: *API Std 650, Annex L*

ASME BPVC Section IX 2023, ISO 12944-5, API RP 651, API 2350

23. Remarks*:



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* If box is blank, Manufacturer shall determine and submit as per Annex L.

TABLE 1 MATERIALS OF CONSTRUCTION

Component	Material*/Thickness*	C.A.	Component	Material*	C.A.
Shell, Course __ to __	ASTM A283 Gr C/ 1/4 in	1/8 in	Reinforcing Pads	ASTM A283 Grade C	
Shell, Course __ to __	ASTM A283 Gr C/ 3/16 in	1/8 in	Manhole/Nozzle Necks	ASTM A283 Grade C	
Shell, Course __ to __			Manhole/Nozzle Flanges	ASTM A283 Grade C	
Shell, Course __ to __			Flange Covers	NA	
Shell, Course __ to __			Anchor Attachments	NA	
Roof	ASTM A1011/ 3/16 in	1/16 in	Submerged Piping	NA	
Bottom	ASTM A283 Gr C/ 3/8 in	1/8 in	Wetted Structurals	ASTM A36	+
Annular Ring	NA		Non-wetted Structurals	ASTM A36	+

+ Check here if C.A. is to apply to each exposed surface ❑.

TABLE 2 BOLTS AND ANCHORS

Component	Head Type*	Bolt or Anchor Material*	Nut Material*	Thread Series*	C.A.
Flange Bolting					++
Structural Bolting					++
Anchor Bolts					++

++ Total C.A., on the nominal diameter.

TABLE 3 NOZZLE AND MANHOLE SCHEDULE* (for Fixed Roof, Shell, and Bottom)

Mark	Service	Size, NPS, or Dia. (In.)	Neck Sch or Wall Thick.	Reinf. Plate Dimensions	Full Pen. On Open. (Y/N)	Flange Type	Flange Class or Thick.	Gasket Bearing Surf. Dimen. and Finish	Gasket Thick. and Dimen.	Gasket Mat'l. and Descript.	Proj. to FF or CL or from Datum Lines
N1	Inlet	NPS 8	Sch 40S	485 mm	Y	WN, RF	CL150				
N2	Output	NPS 8	Sch 40S	485 mm	Y	WN, RF	CL150				
N3	Sump	NPS 3	Sch 40S	265 mm	Y	WN, RF	CL150				
N4	Sump	NPS 3	Sch 40S	265 mm	Y	WN, RF	CL150				
N5	Sump	NPS 3	Sch 40S	265 mm	Y	WN, RF	CL150				
N6	Overfill	NPS 6	Sch 40S	400 mm	Y	WN, RF	CL150				
N7	Mix	NPS 10	Sch 40S	585 mm	Y	SO, RF	CL150				
N8	Sensor	NPS 6	Sch 40S	400 mm	Y	SO, FF	CL150				
N9	Sensor	NPS 6	Sch 40S	375 mm	Y	SO, FF	CL150				
N10	Sensor	NPS 6	Sch 40S	375 mm	Y	SO, FF	CL150				
N11	Vent	NPS 6	Sch 40S	375 mm	Y	SO, RF	CL150				
M1	Shell Manhole	24	1/4 in	1518 mm	Y	-	-				
M2	Roof Manhole	24	1/4 in	1150 mm	Y	-	-				

Approvals:	Revisions:	Title:		
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* If box is blank, Manufacturer shall determine and submit as per Annex L.

OTHER TANK APPURTENANCES

24. Platform, Stairway, and Railing: Galvanizing Req'd?* Yes ❑ No ❑ Stairway Style* Vertical Ladder (Straight or Helical) Walk Surf. Type* Rod grating

Handrail height (if required)* (30 in.–38 in.) 1.10 meter Tread rise/run* 250 mm, max

Stair and Walkway Clear Width* _____ National Safety Standards* OSHA 1910, 1472:2021

Architectural/Structural Specification* Not Required

Material Specification(s): ASTM A36

Gauger's Platform Req'd? Yes ❑ No ❑ Qty Req'd.* Not required Per Spec. * NA

25. Jacket Required?* Yes ❑ No ❑ Other Heaters/Coolers Required?* Yes ❑ No ❑

Supplemental Jacket, Heater, or Cooler Specifications* Not Required

26. Mixer/Agitator: Quantity 01 Size* 10 in Per Spec.* According to the manufacturer

27. Insulation: Required? Yes ❑ No ❑ Thickness* NA Material* NA

Per Specs* NA Responsibility for Insulation and Installation NA

(Purchaser, Manufacturer, Others)

28. Structural Attachments: Lift Lugs?* Yes ❑ No ❑ Desc.* Not Required

Shell Anchorage?* Yes ❑ No ❑ Type* Not Required Scaffold Cable Support? Yes ❑ No ❑

29. Various Other Items: Welded Flush-Type: Shell Connection ❑ Cleanout Fitting ❑ Waive Application of Annex P? Yes ❑ No ❑

Miscellany #1 Groundig lug (x4) Miscellany #2 _____

Miscellany #3 _____ Miscellany #4 _____

Miscellany #5 _____ Miscellany #6 _____

TABLE 4 OTHER TANK APPURTENANCES*

Mark	Quantity	Service or Description	Size	Orientation	Height from Datum	Material	Remarks

Approvals:	Revisions:	Title:
		By: Ck'd: Date:
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* If box is blank, Manufacturer shall determine and submit as per Annex L.

Tank Plan and Sketches:

Notes:

Approvals:	Revisions:	Title:		
		By:	Ck'd:	Date:
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