Santos

Field : EP-161 McArthur Basin Well : Tanumbirini 3HST1 Schematic : SO.D 3.5-a1 rev. 1 Date : 02-Aug-2022

Prepared by : Steven Roberts Verified by : **Paul G. Hyatt**

ul G. Hyatt Pe & a 2-Aug-22

Post completion work Post-frac welltest up production tubing

Planned

Primary barrier elements				
Element	Qualification	Monitoring		
Surface x-mas tree	Pressure tested to 5000 psi for 10 mins, 23-7-22. THAF pressure tested to 3000 psi during Well Integrity visit, 26- 7-22	External Observation, Periodic testing	•	
Tubing hanger	Pressure tested to 5000 psi, 23-7-22. Tubing Hanger Seal pressure tested to 3000 psi during Well Integrity visit, 26- 7-22	Periodic Testing	•	
Tubing	Pressure tested to 5000 psi (backside pressure test), 23- 7-22	Production Casing pressure	•	
Production packer	Pressure tested to 5000 psi , 23-7-22. Pressure tested to 1000 psi during Well Integrity visit, 26-7-22	Production Casing pressure	•	
Production casing cement	Cement job as per program, TOC verified with Wireline CBL at 1785 m MD, 25-11-21	Intermediate Casing pressure	•	

Secondary barrier elements

Secondary Burrier elements				
Element	Qualification	Monitoring		
Spool wellhead C right access valve	Pressure tested to 13700 psi pre-frac, 27-11-22. Pressure tested to 1000 psi during Well Integrity visit, 26-7-22	External observation	•	
Spool wellhead C	Pressure tested to 13700 psi pre-frac, 27-11-21. Pressure tested to 1000 psi during Well Integrity visit, 26-7-22	External observation	•	
Casing hanger	Pressure tested to 13700 psi pre-frac, 27-11-21. Pressure tested to 3000 psi during Well Integrity visit, 26-7-22	Intermediate Casing pressure	•	
Production casing	Pressure tested to 13700 psi pre-frac, 27-11-21. Pressure tested to 5000 psi during workover rig visit, 23-7-22. Pressure tested to 1000 psi during Well Integrity visit, 26- 7-22	Intermediate Casing pressure		
Production casing cement	Cement job as per program, TOC verified with Wireline CBL at 1785 m MD, 25-11-21	Intermediate Casing pressure		

Vote:

Formations hosting potential aquifers:

- Gum Ridge Formation: top 55m TVD; base 202m TVD
- Inacumba Unit: top 200mTVD; base 582m TVD

Top shallow hydrocarbon bearing zone:

- Bukalara Sst: 1,154m TVD

Well Integrity visit conducted 25/26-7-2022

- Initial Tubing 2920 psi, PC 34 psi, IC 0 psi, SC 0 psi
- 4-1/2" PC Pressure test to 1,000 psi (good test)
- 7" IC Pressure test to 1,000 psi (good test)
- 9-5/8" SC Pressure tested to 70 psi (good test)
- 13-3/8" Deep Conductor Pressure tested to 70 psi (failed test, pressure dropped to 47 psi in

10 mins)

- THAF, tubing hanger seal, PC seal, PC flange pressure tested to 3,000 psi (good test), IC Seal and flange pressure tested to 1,600 psi (good test)

