

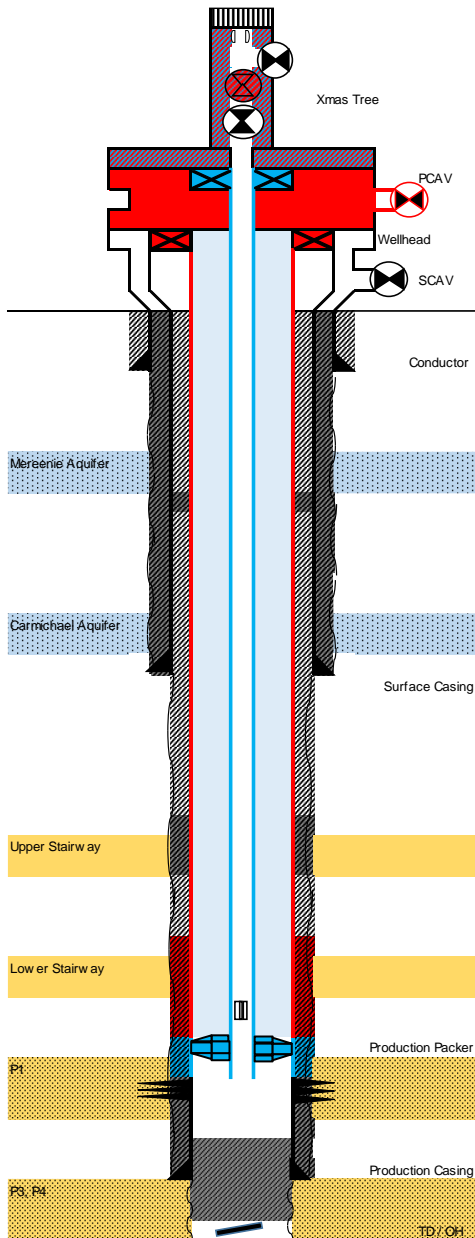


Field: Mereenie
 Well Name: West Mereenie 27
 Active / Inactive: Active
 Well Status: Producer

Revision: 1
 Date: October 2022
 WBIV reviewer:
 D.MacDougal

West Mereenie 27 - For WBIV Submission

Production



Primary Barrier Elements

Element	Qualification	Monitoring
Production Packer	Successful pressure test to 1500psi / 10mins (16/09/2021)	A-annulus pressure
Production Tubing	Successful pressure test to 1500psi / 10mins (16/09/2021)	A-annulus pressure
Tubing Hanger Assembly / Seals	Successful pressure test to 3000psi / 10mins (16/09/2021)	Wellhead Maintenance
Production Casing	Successful pressure test to 2,000psi / 10mins (01/07/2021)	B-annulus pressure Subsurface Integrity Testing
Production Casing Cement	See comments below	B-annulus pressure
XMT - UMV	Successful inflow test (17/06/2022)	Wellhead Maintenance

Secondary Barrier Elements

Element	Qualification	Monitoring
Production Casing	Successful pressure test to 2,000psi / 10mins (01/07/2021)	B-annulus pressure Subsurface Integrity Testing
Production Casing Cement	See comments below	B-annulus pressure
Production Casing Hanger / Seals	Successful pressure test to 5,000psi / 10mins (01/07/2021)	Wellhead Maintenance
WHD - PCAV	Successful pressure test to 1000psi / 10 mins (17/06/2022)	Wellhead Maintenance
XMT - UMV	Successful inflow test (17/06/2022)	Wellhead Maintenance

Central Petroleum Status - Level 3B NOG117 Status - Orange

Notes:

Casing and Tubing details

- 13-3/8" 50# K55 25m MDRT
- 9-5/8" 36# K55 BTC 455m MDRT
- 7" 29# P110 JFE Bear 1219mMDRT
- 2-3/8" 4.7" J55 NS-CT

Cement details

- Surface Casing - TOC at surface, good CBL; LOT to 14.6ppg at casing shoe
- Production Casing - see known anomalies below; poor bond is observed in entire lead cement interval (top of tail cement approx. 730mMD) which is due to micro annulus and low compressive strength effect
- Cement Plug - TOC 1236mMD; TD 1367.5mMD

Formation details

- Mereenie Sandstone, 147.0 - 326.0mMD
- Indicative aquifer depth, 158.0 - 205.0mMD
- Carmichael Sandstone, 326.0 - 435.0mMD
- Indicative aquifer depth, 367.0 - 423.0mMD
- Upper Stairway, 770.0 - 836.0mMD
- Lower Stairway, 955.0 - 1036.5mMD
- P1, 1119.2 - 1227.5mMD
- P3, 1294.0 - 1376.0mMD (TD)

Known Anomalies

- Operational difficulties were experienced during the drilling of WM27 that led to the loss of the reservoir hole section. Consequently, well suspension activities were carried out in order to isolate the P3 formation. A cement plug was tested to approximately 2100psi (18/07/2021). The rig subsequently moved to the WM28 location. A sidetrack was planned for WM27 (WM27 ST1) but was not carried out. The well was completed as a P1 producer only.
- Sustained casing pressure has been observed on the WM27 9-5/8" x 7" casing annulus since the time of production casing cementation. A CBL was run and interrogated which showed evidence of micro annuli. The gas in the SCA was sampled and confirmed to be Stairway gas. The 9 5/8" surface casing and cement barrier has been independently validated. For the operational phase of this well, Central Petroleum has designed an over-pressure protection system to limit surface casing pressure build-up. It is anticipated that additional well integrity management requirements will be in place for the full well lifecycle.

Not to scale