

Arrowhead Grayburg Unit # 105
API # 30-025-31524
Section 25, T21S, R36E, UL. F

WBS # UWPWB-A10___-ABN
2040' FNL & 1880' FWL
Lea County, New Mexico

Recommended P&A Procedure

Notify OCD 24 hrs prior to operations.

1. This procedure will P&A the Arrowhead Grayburg Unit # 105.
2. MIRU PU. Conduct Safety Meeting. Contact OCD. ND WH. NU BOP.
3. RIH w/WS. RU Sierra.
4. Set CIBP @ 3928', Cap w/35 sx CI 'C' cement plug from 3928' to 3660', @ Grayburg Z-5 formation. Tag cement.
5. Spot 100' CI 'C' balanced cement plug from 3760' to 3660', 50' above and below T/AGU. Tag cement.
6. Spot 100' CI 'C' balanced cement plug from 3036' to 2936', 50' above & below T/7Rvns formation. Tag cement.
7. Spot 100' CI 'C' balanced cement plug from 2630' to 2530', 50' above & below B/Salt. Tag Cement.
8. Spot 100' CI 'C' balanced cement plug from 1488' to 1388', 50' above & below T/Salt. Tag cement.
9. Spot 100' CI 'C' balanced cement plug from 1380' to 1280', 50' above & below casing shoe.
10. Spot 10 sx CI 'C' balanced cement plug from 70' to surface.
11. ND BOP. RD PU. ND wellhead. Cut off casing 4' below GL & cap.
12. Install 4" P&A marker 4' above GL w/the following stamped on it:
Chevron U.S.A. Inc.
Arrowhead Grayburg Unit # 105
2040' FNL & 1880' FWL
T21S, R-36E, Sec. 25, UL F
Lea County, NM
13. Remove all equip, deadman, and junk from location.
14. Fill any pits and level location.

Class C Cement:
1% CaCl (Cement Accelerator)
0.5 BA-10 (Fluid Loss Additive)
0.3 CD-32 (Cement Dispersant)
905# Brine w/25# of gel per BBL

Gwen Wilkinson
Petroleum Engineer
CTN 915-687-7507

Casing	Depth
Surf Csg	8-5/8" @ 1330'
Prod Csg	5-1/2" @ 3960'
Formation Tops	Depth
T/Rustler	1304'
T/Salt	1438'
B/Salt	2580'
T/Yates	2788'
T/7Rvns	2986'
T/Queen	3453'
T/Penrose	3560'
T/Grayburg Z-5	3918'