

Koch Exploration Company, LLC  
Plug and Abandonment Procedure  
Federal Unit 6M

Well Information

API No: 05-103-08247  
Location: SESW Sec. 20-T2N-R96W  
Elevation: GL @ 6009'  
TD: 7548'  
PBSD: 6997'  
Surf Csg: 8 5/8" 24# @ 1268'  
Prod Csg: 5 1/2" 15.5# K55 STC @ 7268'  
Prod Tbg: 3 1/2" 9.3# J55 8rd tbg @ 6138'  
Set with Baker Model FA-1 Packer - Top @ 6138', Btm @ 6141'  
Perforations: 6170-6852' – Mesaverde  
7092-7104' – Rollins (abandoned below BP @ 6997')

Procedure:

1. MIRU service rig. Bleed off pressure. Remove wellhead and install BOP.
2. Release 3 1/2" liner from FA-1 packer and POOH.
3. RIH with wireline and set CIBP at 6120'. Dump bail 5 sacks cement on top of CIBP.
4. RIH with tubing. Spot cement plugs across existing bad casing from 5243' up through 1680'. Plugs will be designed to be no greater than 700', or 80 sacks (1.16 ft<sup>3</sup>/sk yield) and will cover 50' below and above bad casing intervals. After an appropriate waiting period, cement top will be tagged before next plug set.
5. RIH with wireline. Perforation 5 1/2" casing 50' below 8 5/8" shoe at 1336'. Attempt to circulate cement.
6. RIH with tubing. Spot cement plug across 8 5/8" casing shoe from 1350' up to 1200'. After an appropriate waiting period, cement top will be tagged before next plug set.
7. Cut 5 1/2" casing at 200' and POOH. RIH 50' into casing stub and spot 60 sacks cement. Top job casing stub until cement is to surface.
8. Cut off wellhead at least 3' below final restored ground level and install dry hole marker as per Onshore Order #2.
9. Reclaim location as per BLM regulations.