



Cosslett 31-22

API# 05-123-21857
NWNE Sec 22-1N-68W
Weld County, Colorado

P&A Procedure

AFE #

August 13, 2018

Engineer:	Pam Woods
VP, Engineering & Subsurface:	Emily Miller
Completions Superintendent:	Matt Rohret
VP, DJ Operations:	John Schmidt
Attachments:	Current Wellbore Diagram Proposed Wellbore Diagram

Objective

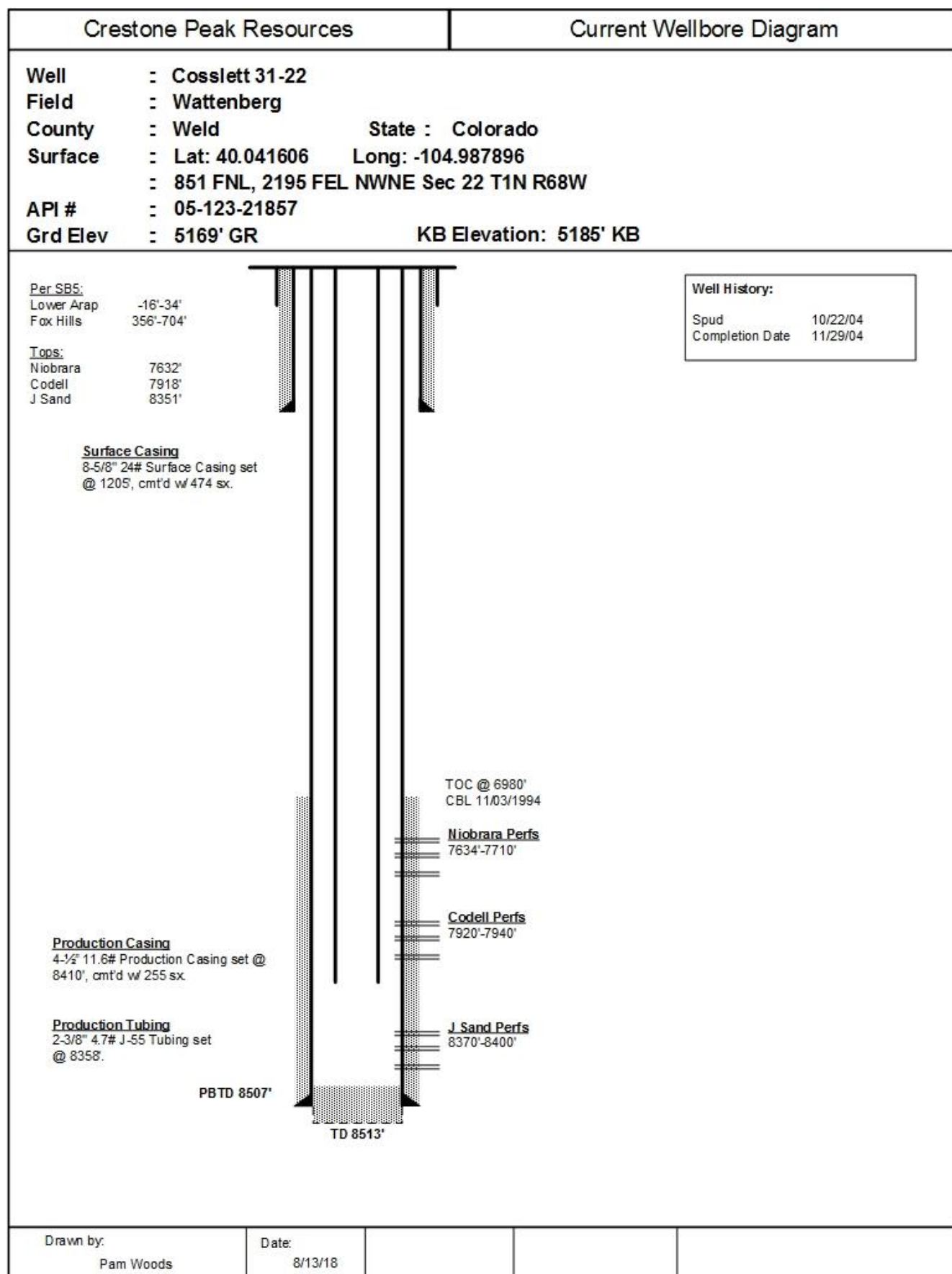
Pull tubing and production equipment. Plug and abandon well.

Procedure

1. Submit electronic Form 42 to COGGC 48 hours prior to performing Form 17 Bradenhead Test. (not required if Bradenhead Test has been completed within 60 days of plugging operations.)
2. Perform Form 17 Bradenhead Test and sample for gas, water, and oil per COGCC Regulation.
3. Contact surveyor to acquire as-built surface location.
4. Submit electronic Form 42 to COGGC 48 hours prior to MIRU.
5. Submit form for Ground Disturbance Permit. Get One Call.
6. Notify Automation and Production Department. Production to check pressures, retrieve plunger equipment and blow down well.
7. Hold a pre-job safety meeting. Discuss all aspects of the procedure with any involved personnel. Identify and address any safety concerns before the job begins.
8. MIRU workover unit. Blow down well.
9. ND wellhead. NU BOPE.
10. Un-land tubing and TOO H w/tubing.
11. MIRU wireline.
12. RIH w/ CIBP on wireline. Set CIBP at ~8,300' (within 50'-100' of the top of the J-Sand at 8,351', between collars).
13. RIH w/ wireline and dump bail 2 sx cement on top of CIBP. POOH.
14. RIH w/ CIBP on wireline. Set CIBP at ~7,560' (within 50'-100' of the Niobrara formation top at 7,632', between collars).
15. RIH w/ wireline and dump bail 2 sx cement on top of CIBP. POOH.
16. Pressure test plug to 500 psi. Hold pressure for 15 min.
17. TIH with bit and scraper. Run bit and scraper to at least 4700'. TOO H.
18. RIH w/ perforating gun. Perforate squeeze holes at 4650'. POOH.
19. PU CICR with tubing and TIH to 4,635'. Set CICR. Unsting and pressure test tubing. Sting into CICR and establish circulation/injection.
20. Pump 85 sx Class G cement. (Note: Squeeze volume calculations are based on 1.15 CF/sk cement yield). Leave 1 bbl on top of CICR. Roll hole clean. Ensure there are no signs of pressure, hydrocarbons or fluid migration. Contact office if there is any evidence. TOO H.
21. ND 7 1/16" BOP and wellhead. NU 11" BOP on surface casing. RU casing tongs and pipe wrangler.
22. RIH with casing jet cutter on wireline. Cut 4 1/2" casing at 2,000. POOH with wireline. Pull casing with spear to first joint, remove casing slips. Establish circulation.
23. Pump and spot 75 sx Class G balance stub plug from 2,000' to 1,804'. Trip out of hole to 1265'. Wait on cement for 4 hours. Roll hole. Ensure there is no sign of hydrocarbons. If evidence is found, contact engineering. If circulation was not maintained while pumping plug, then the plug must be tagged after WOC.

24. Pump 65 sx Class G or Type III cement (mixed with sufficient accelerant to achieve a 4-hour set time, 1.15 cf/sk yield) to spot a balanced plug across surface casing shoe. TOC will be approximately 1096'. TOOHL laying down all casing. Wait on cement for 4 hours.
25. TIH w/ tubing and tag cement top (top must be at least 50' above casing shoe—1155' or shallower). Report top to engineering. Pressure test plug to 250 psi. TOOHL.
26. PU 8-5/8" CIBP. TIH and set @ 100'. Blow hole dry with rig compressor. TOOHL. LD all tubing.
27. ND BOP. Install casing cap w/ relief valve.
28. Disconnect flowline from separator and connect to junk tank placed at the battery.
29. Flush flowline with treated fresh water then blow dry with rig compressor. Prepare flowline for removal by construction department.
30. RDMO pulling unit.
31. MIRU top off truck, water truck and air compressor.
32. RIH w/ plastic tubing to CIBP at 100'.
33. Reverse circulate with 30 sx cement from 100' to surface. Top off well and annular spaces as needed.
34. RDMO top off equipment.
35. Per ground disturbance procedure/policy, excavate around wellhead. Notify Environmental Department for surface review and inspection while digging.
36. Contact EHS to scan WH with FLIR to confirm well is plugged with no gas at surface. Save FLIR photo in well file.
37. Cut off casing 4 ft below ground level.
38. Weld on metal plate and dry hole marker.
39. Remove flowlines and backfill holes.
40. Notify Integrity Department to properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment is complete.
41. Restore surface location.
42. Ensure all rig tickets, pressure charts, cement and wireline tickets are saved to the electronic well files on the shared drive for subsequent reporting.
43. Submit Form 6 Subsequent Report of Abandonment documenting the P&A to COGCC.

Attachment #1 – Current Wellbore Diagram



Crestone Peak Resources								
Well	: Cosslett 31-22							
Field	: Wattenberg							
County	: Weld	State	: Colorado					
Surface	: Lat: 40.041606	Long:	-104.987896					
	: 851 FNL, 2195 FEL NWNE Sec 22 T1N R68W							
API #	: 05-123-21857							
Grd Elev	: 5169' GL 5185' KB							
<div> <div> <div> <div>Per SB5:</div> <div>Lower Arap</div> <div>Fox Hills</div> </div> <div> <div>-16"-34"</div> <div>356'-704'</div> </div> </div> <div> <div>Tops:</div> <div>Sussex</div> <div>Niobrara</div> <div>Codell</div> <div>J Sand</div> </div> <div> <div>4850'</div> <div>7632'</div> <div>7918'</div> <div>8351'</div> </div> </div> <div> <div>8-5/8" 24# Surface Casing set @ 1205'. Cmt'd w/ 474 sx.</div> <div> <div>CIBP set @ 100' w/ 30 sx cement to surface</div> <div>65' sx balanced plug ~1096' -1265' Calculated with 30% excess in OH</div> <div>75' sx balanced plug 1,804' - 2,000' Calculated w/ 30% excess in OH 4-1/2" casing cut at 2,000'</div> <div> <div>CICR set @ 4635' w/ 1 bbl cement on top</div> <div>Sqz holes perf'd @ 4650'</div> <div>Sqz'd with 85 sx cement (1.15 cf/sx yield)</div> <div>Inside csg: TOC @ ~4561'</div> <div>Outside csg: 202' of cmt (w/ 30% excess)</div> </div> <div> <div>TOC @ 6980'</div> <div>CBL 11/3/94</div> </div> <div> <div>CIBP set @ 7560' w/ 2 sx cement</div> <div> <div>Niobrara Perfs</div> <div>7634' -7710'</div> <div>Codell Perfs</div> <div>7920' -7940'</div> </div> <div> <div>CIBP set @ 8300' w/ 2 sx cement</div> <div> <div>J Sand Perfs</div> <div>8370' - 8400'</div> </div> </div> <div> <div>4-1/2" 11.6# production casing set @ 8410'. Cmt'd w/ 255 sx.</div> <div> <div>PBD 8507'</div> <div>TD 8513'</div> </div> </div> </div> </div> <tr> <td>Drawn by:</td><td>Date:</td><td></td><td></td></tr> <tr> <td>Pam Woods</td><td>8/10/18</td><td></td><td></td></tr> </div>	Drawn by:	Date:			Pam Woods	8/10/18		
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