



Procedure Sheet – Hobbs District

PLEASE COMMENCE WITH WORK PER PROCEDURE

HOBBS OCD

MAR 1 5 2017

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Quail Ridge 32 State 2

Recomplete Well in 1st Bone Spring

Current Well Data:

KB

25' above GL

TVD/PBTD

13,682'/13,633'

KOP

N/A Vertical Well

Perfs

Morrow (13,205' - 13,566')

Casing

Size	Weight	Grade	Thread	Set at	Cmt	Remarks
13-3/8"	48#	H-40	ST&C	437'	390 sx	cmt circ
9-5/8"	40#	H-40	ST&C	3225'	980 sx	cmt circ
5-1/2"	17#	P-110	ST&C	13675'	3045sx	TOC 3000'

Tubing

Quantity	Description	Length	Setting Depth
1	KB	25.00	25.00
1	2-3/8" L-80 Tubing	31.74	56.74
1	2-3/8" L-80 Tubing Sub	2.00	58.74
413	2-3/8" L-80 Tubing	13379.68	13438.42
1	On/Off Tool	1.58	13440.00
1	AS-1 X Re-settable packer	7.62	13447.62
1	APISN	1.10	13448.72

Packer

AS-1X Resettable Packer @ 13,447'

Procedure:

Max Treating Pressure = 8,500 psi

- 1. Hold operational safety meeting on location; discuss all risk and potential dangers.
- 2. MIRU Pulling unit.
- 3. Release 5-1/2" AS1X Packer and TOH.
- 4. LD Packer. PU 4-3/4" bit and 5-1/2" casing scraper. RIH to 13,200'.
- 5. TOOH, LD bit and scraper. PU 5-1/2" CIBP.
- 6. TIH to 13,195' and set CIBP.
- 7. Release from the CIBP and PU 1 joint and circulate well w/ 375 bbls of 2% KCL.

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Please call Kody Murphy at 432.620.1951 if you have any questions



- 8. RIH to 13,194' and spot balanced plug w/ 50 sxs of class H cement on top of CIBP also covering the top of the Morrow formation. **Abandoning Morrow.**
- 9. PU tbg to ± 12,450'. Reverse Circulate 9 bbls of mud-laden fluids. Flush with 217 bbls of 2% KCL, leaving mud fluids at EOT in the wellbore.
- 10. Allow proper time for cement to set up.
- 11. TIH and tag cement plug @ ± 12,549'.
- 12. PU tbg to 12,178' and spot balanced plug w/ 50 sxs of class H cement across the top of the Strawn formation.
- 13. PU tbg to ± 11,500'. Reverse circulate 14 bbls of mud-laden fluids. Flush w/ 194 bbls of 2% KCL, leaving mud fluids at EOT in the wellbore.
- 14. Allow proper time for cement to set up.
- 15. TIH and tag cement plug @ ± 11,532'.
- 16. PU tbg to 10,944' and spot balanced plug w/ 35 sxs of class H cement across the top of the Wolfcamp formation. **Abandoning Wolfcamp.**
- 17. PU tbg to ± 10,300'. Reverse circulate 61 bbls of 2% KCL.
- 18. TOOH w/ 2-3/8" tbg and LD.
- 19. Pressure test casing to **Max Treating Pressure: 8,500 psi.** Hold for 30 minutes.
 - a. Bleed off pressure after 30 minutes.
- 20. RU WL. RIH w/ Select fire perforating guns and a gamma ray gun.
 - a. Correlate gamma ray back to <u>Halliburton "Cement Bond, Gamma Ray, Collar Log"</u> dated 05-12-06 @ 1500
- 21. Perforate 9,473' 9,572' w/ 3 SPF, 0.41" EH, and 120-degree phasing.
- 22. RD WL. RU Frac Crew and pressure test lines to MTP: 8,500 psi.
- 23. Frac the perforated interval w/ 300,000 lbs of proppant and 170,500 gals of slickwater with 17# Linear Gel and 17# XL Borate.
- 24. RU flowback equipment in such a way that production can be turned to the battery once hydrocarbons are detected.
- 25. Flowback well until it dies (if at all).
- 26. Set pumping unit. RIH w/ tbg and rods.
- 27. Return to production.

