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MOBILE OFFICE

WARREN UNIT NO. 75
RE-SQUEEZE PERFORATIONS IN PADDOCK

WELL DATA:

TD: 6130' PBSD: 6073' ELEVATION: GL-3518' KBM: 11' AGL

LOCATION: 1980' FSL & 1980' FWL, Section 34, T-20S, R-38E, Lea County, New Mexico

CASING DATA: Surface - 8-5/8", 24#, K-55 set @ 1500' w/730 sx cmt.
Production - 5-1/2", 17#, K-55 set @ 6130' w/1286 sx cmt.

PERFORATIONS: Paddock - 5734' - 71'
Blindbry - 5812' - 6023'

PACKERS: Baker Lok-Set @ 5792'
Baker C-1 Tandom @ 5512' w/17 pts tension

RECOMMENDED PROCEDURE:

1. Shut off injection & allow well pressure to bleed off.
2. RU & POOH w/straddle pkr arrangement (see depths above).
3. RIH w/retrievable BP & 5-1/2" treating pkr on 2-7/8" tbg (workstring) hydrotested to +6000 psig.
4. Set BP @ +5700'. Test BP w/treating pkr to +1000#. Unseat pkr & test csg to 1000 psi to check for holes. If any csg leaks are discovered, call ARP @ Ext. 169.
5. Release BP @ 5700' & set @ +5800'. Test BP w/treating pkr to 1000 psi & dump 10' sand on top of BP.
6. Pull up to +5630' & set pkr. Pressure test pkr down backside to +1000 psi. Establish a pump in rate into the Paddock perforations (maximum pressure 2000 psi).
7. Mix 6 bbls (based on BP & pkr depths in this procedure, if actual depths change, use 2 bbls cmt to squeeze in formation + volume below pkr & above sand on BP - see attached diagram) of Class H cmt containing .2% Halad 4 (or equivalent) and 1% CaCl plus 4.3 gals water/sx cmt. (Cmt will weigh 16.4#/gal & yield 1.06 ft³/sx with a pumping time of 1 hr 46 min @ 90°F circ. temp.)
8. Spot the cmt to within 60' of pkr bottom via a bypass on the pkr. Close bypass & attempt to hesitate squeeze to 1500 psi. (Place 500 psi on backside prior to squeezing.)
9. Release pkr & reverse circ. excess cmt to surface. POOH w/pkr & tbg. WOC no less than 12 hrs.
10. RIH w/bit & scraper & tag cmt. Drill cmt out of csg to +5775'. POOH w/bit & scraper.

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Page 2

11. RIH w/treating pkr & test squeeze to 1000 psi for 30 min. If leak occurs, call ARP, Ext. 169.
12. Reverse sand off BP. Retrieve BP set @ +5800'. POOH.
13. RIH w/Baker AD-1 tension pkr & set @ +5790' & test pkr to no more than what squeeze was tested to. Place back on injection.

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