

DTU 1107 Mancos Silt Recomplete

API #: 05-103-09358

Date: 03/08/2022

NWNW-S27-T2S-R102W-6PM

Elevation: 7124' GR, 7134' KB

Work Order #: PENDING

Rio Blanco County, Colorado

PBTD/TD: 3463'/3580'

Current EOT: 3258'

CONTACT INFORMATION

LEAD	PHONE	LEAD	PHONE
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ENGINEER	PHONE	RIG FOREMAN	PHONE
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WELL DATA:

Tubular Type	Grade	OD (in)	Wt/Len (lb/ft)	Set Depth (ft)	ID (in)	Drift (in)	Collapse (psi)	Burst (psi)	Capacities		
									Gal/ft	ft ³ /ft	Bbl/ft
Surface Casing	J-55	8.625	24.0	224	8.097	7.972	1370	2950	-	-	-
Production Casing	J-55	5.500	15.5	3514	4.95	4.825	4040	4810	0.9997	0.1336	0.0238
Production Tubing	J-55	2.375	4.7	3258	1.995	1.901	8100	7700	0.1624	0.0217	0.0039

Annulus	Capacities		
	Gal/ft	ft ³ /ft	Bbl/ft
Production Casing (5.5" @ 15.5 lbs/ft) - Tubing (2.325")	0.7696	0.1029	0.0183

PERFERATIONS:

Type	Target Formation	Depth (ft)
Proposed	Mancos Silt	2760-2912
Existing	Mancos B	3004-3351

PROCEDURE:

NOTE: Any water that goes in the hole will need to be 2% KCL treated w/ corrosion inhibitor and biocide.

- 1.) MIRU completions unit. Open casing and bleed down well. NDWH & NUBOP. Unseat 2-3/8" tubing and RIH to tag. POOH w/ tubing. PU and CO to PBTD with sand pump if necessary.
- 2.) MIRU perforators w/ packoff pressure equipment. RIH w/ Junk Basket to 300'. Run correlation log and tie into GR/N log. RIH w/ 5-1/2" CIBP and set @ 2979'. Pressure test to 3850 psi for 15 minutes. TIH w/ 3-1/8" gun and perforate the Mancos Silt as follows w/ 19 gm charge, 0.38" EHD, 180° phasing as follows in Appendix A. RDMO Perforators.
- 3.) MIRU Well Treaters. NUBOP and TIH w/ 2-3/8" tubing with blast joint on top to ~2912'. Load tubing and circulate one annular volume (55 bbls) with 2% KCL. Spot acid across the perms (117 gallons) and shut in for 15 minutes. PU tubing to ~2710'.
- 4.) Break Down Mancos Silt w/ 1000 gallons of 15% HCL plus additives as directed by engineering. Recommended injection rate is 7 BPM diverting with 59 1" x 1.3 SG ball sealers spaced evenly throughout the treatment. If ball off occurs, surge and pump remaining fluids. Displace treatment with 2% KCL. **MAXIMUM PRESSURE IS 3848 psi.**
- 5.) Surge well to release balls.
- 6.) NDBOP & NUWH and flowback line. RD and release WO rig.
- 7.) Fracture treat the Mancos Silt with nitrogen as directed by well treater's procedure. The recommended injection rate is 30 BPM @ 3838 psi max pressure. **START FLOWBACK IMMEDIATELY.** RDMO Well Treaters.
- 8.) Immediately flow back to tanks/pit wide open. Put well online for extended flow test.
- 9.) MIRU WO Rig. RIH to tag. NDWH & NUBOP. CO to CIBP @ 2979'.
- 10.) TIH w/ SN on 2-3/8" tubing. Land tubing w/ EOT @ 2861'. NDBOP & NUWH. RDMO WO Rig. Release to operations for RTP as Mancos Silt well until further notice.

APPENDIX A:

RECOMMENDED PERFORATIONS (SHOTS SUBJECT TO FINAL APPROVAL)	
DEPTH	HOLES
2760	1
2764	1
2768	1
2772	1
2776	1
2780	1
2784	1
2788	1
2792	1
2796	1
2800	1
2804	1
2808	1
2812	1
2816	1
2820	1
2824	1
2828	1
2832	1
2836	1
2840	1
2844	1
2848	1
2852	1
2856	1
2860	1
2864	1
2868	1
2872	1
2876	1
2880	1
2884	1

2888	1
2892	1
2896	1
2900	1
2904	1
2908	1
2912	1
Total:	39