

# DTU 1316 Mancos Silt Recomplete

API #: 05-103-09094

Date: 03/08/2022

NWNW-S36-T2S-R103W-6PM

Elevation: 6753' GR, 6761' KB

Work Order #: PENDING

Rio Blanco County, Colorado

PBTD/TD: 3360'/5408'

Current EOT: 3190'

## 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 <sup>3</sup> /ft	Bbl/ft
Surface Casing	K-55	9.625	36	201	8.835	8.679	2570	3950	-	-	-
Intermediate Casing	K-55	7	20	3528	6.456	6.331	2270	3740	1.7005	0.2273	0.0405
Liner (Below PBTD)	K-55	4.5	10.5	5406	4.052	3.927	4010	4790	0.6699	0.0896	0.0159
Production Tubing	J-55	2.375	4.7	2888	1.995	1.901	8100	7700	0.1624	0.0217	0.0039

Annulus	Capacities		
	Gal/ft	ft <sup>3</sup> /ft	Bbl/ft
Intermediate Casing (7" @ 20 lbs/ft) - Tubing (2.325")	0.6801	0.1966	0.0350

## PERFERATIONS:

Type	Target Formation	Depth (ft)
Proposed	Mancos Silt	2743-2917
Existing	Mancos B	2997-3371

## 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 3000'. Run correlation log and tie into GR/N log. RIH w/ 7" CIBP and set @ 2972'. Pressure test to 2990 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 ~2917'. Load tubing and circulate one annular volume (105 bbls) with 2% KCL. Spot acid across the perms (256 gallons) and shut in for 15 minutes. PU tubing to ~2693'.
- 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 68 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 2992 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 @ 2992 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 @ 2972'.
- 10.) TIH w/ SN on 2-3/8" tubing. Land tubing w/ EOT @ 2859'. NDBOP & NUWH. RDMO WO Rig. Release to operations for RTP as Mancos Silt well until further notice.

**APPENDIX A:**

<b>RECOMMENDED PERFORATIONS (SHOTS SUBJECT TO FINAL APPROVAL)</b>	
<b>DEPTH</b>	<b>HOLES</b>
<b>2743</b>	<b>1</b>
<b>2747</b>	<b>1</b>
<b>2751</b>	<b>1</b>
<b>2755</b>	<b>1</b>
<b>2759</b>	<b>1</b>
<b>2763</b>	<b>1</b>
<b>2767</b>	<b>1</b>
<b>2771</b>	<b>1</b>
<b>2775</b>	<b>1</b>
<b>2779</b>	<b>1</b>
<b>2783</b>	<b>1</b>
<b>2787</b>	<b>1</b>
<b>2791</b>	<b>1</b>
<b>2795</b>	<b>1</b>
<b>2799</b>	<b>1</b>
<b>2803</b>	<b>1</b>
<b>2807</b>	<b>1</b>
<b>2811</b>	<b>1</b>
<b>2815</b>	<b>1</b>
<b>2819</b>	<b>1</b>
<b>2823</b>	<b>1</b>
<b>2827</b>	<b>1</b>
<b>2831</b>	<b>1</b>
<b>2835</b>	<b>1</b>
<b>2839</b>	<b>1</b>
<b>2843</b>	<b>1</b>
<b>2847</b>	<b>1</b>
<b>2851</b>	<b>1</b>
<b>2855</b>	<b>1</b>
<b>2859</b>	<b>1</b>
<b>2863</b>	<b>1</b>

<b>2867</b>	<b>1</b>
<b>2871</b>	<b>1</b>
<b>2875</b>	<b>1</b>
<b>2879</b>	<b>1</b>
<b>2883</b>	<b>1</b>
<b>2887</b>	<b>1</b>
<b>2891</b>	<b>1</b>
<b>2895</b>	<b>1</b>
<b>2899</b>	<b>1</b>
<b>2903</b>	<b>1</b>
<b>2907</b>	<b>1</b>
<b>2911</b>	<b>1</b>
<b>2915</b>	<b>1</b>
<b>2917</b>	<b>1</b>
<b>Total:</b>	<b>45</b>