

DTU 1015 Mancos Silt Recomplete

API #: 05-103-07027

Date: 08/01/2022

NENW-S34-T2S-R102W-6PM

Elevation: 7065' GR, 7074' KB

Work Order #: PENDING

Rio Blanco County, Colorado

PBTD/TD: 3074'/3110'

Current EOT: 3074'

CONTACT INFORMATION

LEAD	PHONE	LEAD	PHONE
TERRY RICHARDSON	970-629-0316	JESSE SMUTS	970-361-0167
ENGINEER	PHONE	RIG FOREMAN	PHONE
TJ SHELTON	970-629-1222	MIKE HAYES	970-620-5834

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	105	8.097	7.972	1370	2950	-	-	-
Production Casing	J-55	5.500	14	3110	5.012	4.887	3120	4270	1.0249	0.1370	0.0244
Production Tubing	J-55	2.375	4.7	3074	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" @ 14 lbs/ft) - Tubing (2.325")	0.7948	0.1062	0.0189

PERFERATIONS:

Type	Target Formation	Depth (ft)
Proposed	Mancos Silt	2343-2474
Existing	Mancos B	2580-2920

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 2-1/2" tubing and RIH to tag. POOH w/ tubing. PU and CO to PBTB with sand pump if necessary.
- 2.) MIRU perforators w/ packoff pressure equipment. RIH w/ Junk Basket to 2600'. Run correlation log and tie into GR/N log. RIH w/ 5-1/2" CIBP and set @ 2555'. Pressure test to 3400 psi for 15 minutes. TIH w/ 3-1/8" gun and perforate the Mancos Silt 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 ~2474'. Load tubing and circulate one annular volume (49 bbls) with 2% KCL. Spot acid across the perfs (105 gallons) and shut in for 15 minutes. PU tubing to ~2293'.
- 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 51 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 3416 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 @ 3416 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 @ 2555'.
- 10.) TIH w/ SN on 2-3/8" tubing. Land tubing w/ EOT @ 2430'. 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
2343	1
2347	1
2351	1
2355	1
2359	1
2363	1
2367	1
2371	1
2375	1
2379	1
2383	1
2387	1
2391	1
2395	1
2399	1
2403	1
2407	1
2411	1
2415	1
2419	1
2423	1
2427	1
2431	1
2435	1
2439	1
2443	1
2447	1
2451	1
2455	1
2459	1
2463	1

2467	1
2471	1
2474	1
Total:	34