

DTU 1072 Mancos Silt Recomplete

API #: 05-103-09431

Date: 03/04/2022

SWNE-S20-T2S-R102W-6PM

Elevation: 6184' GR, 6794' KB

Work Order #: PENDING

Rio Blanco County, Colorado

PBTD/TD: 3026'/3111'

Current EOT: 2786'

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	TRAVIS PETERSON	970-549-7984

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	212	8.097	7.972	1370	2950	-	-	-
Production Casing	J-55	5.500	15.5	3070	4.95	4.825	4040	4810	0.9997	0.1336	0.0238
Production Tubing	J-55	2.375	4.7	2786	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	2362-2542
Existing	Mancos B	2593-2950

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 2600'. Run correlation log and tie into GR/N log. RIH w/ 5-1/2" CIBP and set @ 2568'. 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 ~2542'. Load tubing and circulate one annular volume (48 bbls) with 2% KCL. Spot acid across the perms (139 gallons) and shut in for 15 minutes. PU tubing to ~2312'.
- 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 69 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 @ 2568'.
- 10.) TIH w/ SN on 2-3/8" tubing. Land tubing w/ EOT @ 2482'. 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
2362	1
2366	1
2370	1
2374	1
2378	1
2382	1
2386	1
2390	1
2394	1
2398	1
2402	1
2406	1
2410	1
2414	1
2418	1
2422	1
2426	1
2430	1
2434	1
2438	1
2442	1
2446	1
2450	1
2454	1
2458	1
2462	1
2466	1
2470	1
2474	1
2478	1
2482	1
2486	1

2490	1
2494	1
2498	1
2502	1
2506	1
2510	1
2514	1
2518	1
2522	1
2526	1
2530	1
2534	1
2538	1
2542	1
Total:	46