

Well name:	Revelation 10 "M" Federal #1
Operator:	Deveon Energy Production Co. L.P.
String type:	Production
Location:	Sec. 10, T22S, R25E, Eddy CO., NM

Design parameters:**Collapse**

Mud weight: 6.200 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 80 °F
Bottom hole temperature: 168 °F
Temperature gradient: 0.80 °F/100ft
Minimum section length: 375 ft

Burst

Max anticipated surface pressure: 3,543 psi
Internal gradient: 0.000 psi/ft
Calculated BHP: 3,543 psi

Annular backup: 9.60 ppg

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Non-directional string.

Tension is based on air weight.
Neutral point: 10,013 ft

Estimated cost: 51,464 (\$)

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
3	3500	5.5	17.00	L-80	LT&C	3500	3500	4.767	22176
2	6500	5.5	15.50	J-55	LT&C	10000	10000	4.825	22952
1	1000	5.5	17.00	L-80	LT&C	11000	11000	4.767	6336

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
3	1127	5541	4.92	3543	7740	2.18	177.3	338	1.91 J
2	3221	3960	1.23	1797	4810	2.68	117.8	217	1.84 J
1	3543	6290	1.78	3543		999.00	17	338	19.88 J

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Remarks:

Collapse is based on a vertical depth of 11000 ft, a mud weight of 6.2 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.