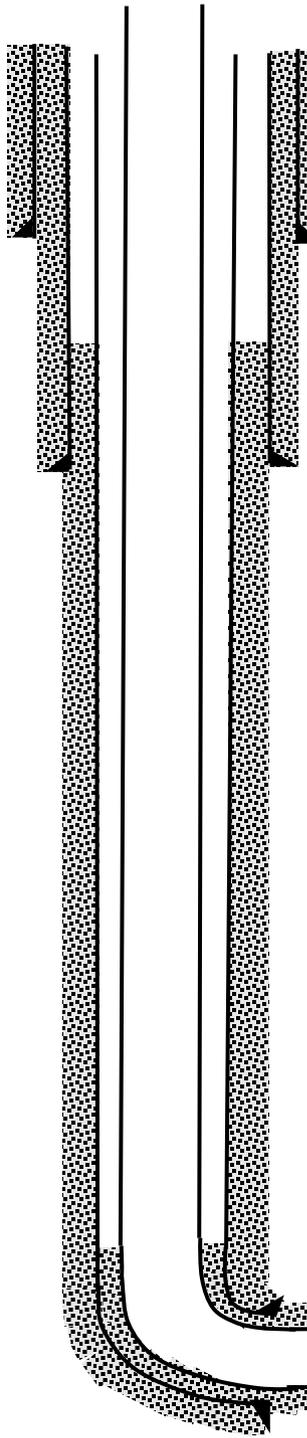


**Well Name: UL 20 Sugarloaf D 20-37-48 5104H**

**API # 42-495-34113**

**As Drilled Wellbore Schematic**



String	Hole, in	Csg, in	Wt,ppf	Grade	Conn.	Top	Bottom	TOC
Surf.	20.0	16.000	65	J-55	BTC	0'	383'	0'
Int. I	13.5	10.75	45.5	HCK-55	BTC	0'	4,965'	0'
Int. II	9.875	7.625	29.7	HCP-110	BTC	0'	11,724'	3,849'
Longstring	6.75	5.5	23	HCP-110	TMK UP SF	0'	10,797'	5,019'
Longstring	6.75	4.5	13.5	HCP-110	TMK UP BPN	10,797'	21,232'	n/a

**Surface Drilling/Casing Summary:** 9 jts. of 16" 65# J55 BTC. Casing shoe at 383'. Float collar at 338'; 9 bow spring Centralizers run, first, second joint and every joint to 42'.

**Surface Notes:** 31 bbls cement to surface

**Intermediate I Drilling/Casing Summary:** 107 jts. of 10.75" 45.5# HCK55 BTC. Casing shoe at 4,965'. Float collar at 4,915'; 37 bow spring Centralizers run, first, second joint and every 3rd joint to 54'.

**Intermediate I Notes:** 116 bbls cement to surface

**Intermediate II Drilling/Casing Summary:** 272 jts of 7.625" 29.7# BTC. Casing shoe at 11,724'. Float collar at 11,636'; 10 solid body cents; 1 on the first two and 1 every other int the curve; bow springs every 3rd till previous shoe

**Intermediate II Notes:** losing mud while displacing, 120 bbls loss recorded

**Production Drilling/Casing Summary:** 248 jts of 5.5" 23# HCP-110 UP SF x 4.5" 13.5# HCP-110 TMK UP BPN, Float Shoe at 21,232', Float Collar at 21,141', Debris Catcher at 21,139', Marker jts at 21,138' & 19,276' & 17,416' & 15,517' & 13,663'. AIRLOCK at 10,811', Marker jt at 10,808' x-over at 10,798'. Centralizers ran as per Halliburton recommendation.

**Production LongString:** Fiber Install, Airlock Sub used to float casing

**Production Notes:** 80 bbls spacer to surface

KOP: 10,950'  
TVD: 10,934'

TMD: 21,258'  
TVD: 11,540'

Hardlines:

Updated: 2/10/2019 | Updated By: D. Logan

Formation: Wolfcamp A (Lower)  
Ward County, Texas  
Elevation: 2714  
SHL: 173' FNL 1733' FEL Sec 37 Blk 20  
BHL: 50' FSL 2051' FEL Sec 37 Blk 20

- |                              |                             |   |
|------------------------------|-----------------------------|---|
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Cellar pumped out?                                  |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Wire fence around cellar?                           |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Location cleared of all misc. equipment / materials |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Mouse hole filled in?                               |