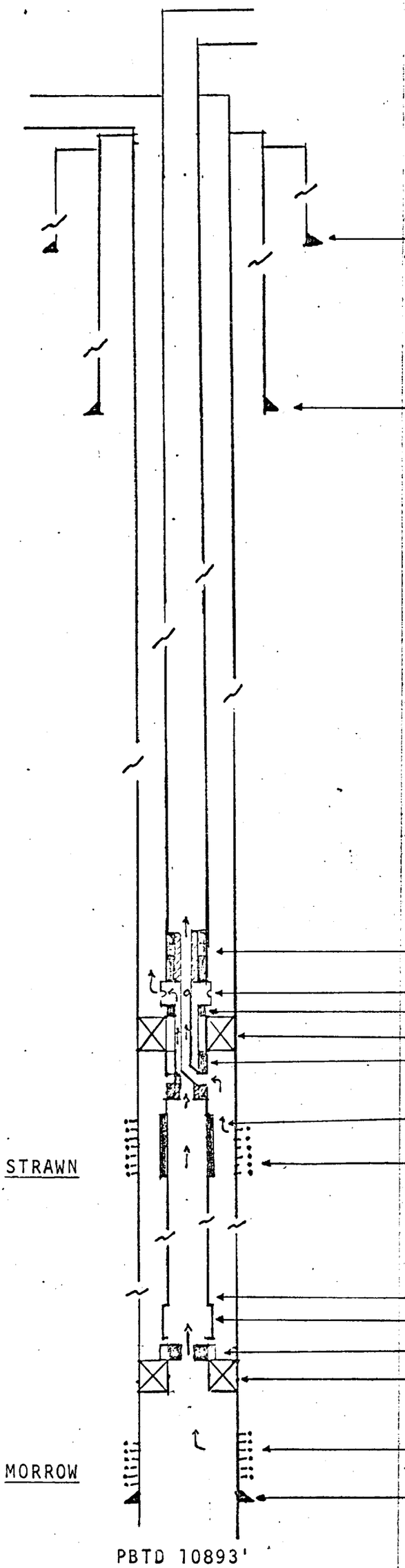
DUAL COMPLETION (TUBING/ANNULUS)
Strawn & Morrow Formations

Hanagan Petroleum Corporation
No. 3 Catclaw Draw Unit
Sec. 36-21S-25E, Eddy Co., N.M.



13-3/8" csg. set at 493' w/350 sx.,cmt. circ.

8-5/8" csg. set at 2130' w/950 sx., cmt. circ.

Otis 2" Pos-2-S landing nip

Ported 2" coupling

1.875 Otis packing nip

Otis 2" x 5-1/2" R. H. packer @ 9453'

1,875 ported packing nipple

40' 2-3/8" blast joints

Strawn csg. perf from 9544 - 9560' (4 SPF)

2-3/8" 4.7# Tubing @ 10409'

Otis 2" XO S.S.D. - sleeve

5-1/2" Otis O.S.T.S.O. w/1.5" profile

5-1/2" Otis Permalach packer @ 10409'

Morrow csg. perf from 10,810 - 826' (4 SPF)

5-1/2" csg. 10,993'. w/350 sx.