

LUCAS & ASTON No. 1 State, NE SW Sec. 35 10 T.10 S. - R. 26 E., Chaves County, N.M.
Elev. 3628'.

- 0 - 10' Silty, medium grained, red sand
- 20' Red shale & red sand
- 40' Medium grained, reddish, silty sand
- 50' Medium to coarse, clear to reddish sand. Some gypsum
- 60' White gypsum. Little gray sand
- 70' White gypsum
- 162' Gypsum & anhydrite. Little calcareous anhydrite
- 170' Gypsum, anhydrite & red shale
- 222' Gypsum & anhydrite, interbedded.
- 240' Gypsum & anhydrite. Little red shale
- 307' Gypsum-anhydrite mixture.
- 312' Anhydrite & fine reddish silty sand
- 318' White to glassy anhydrite
- 330' Anhydrite & salt
- 360' Salt
- 364' White to glassy anhydrite
- 390' Salt
- 400' Salt & anhydrite
- 407' Salt
- 420' Glassy anhydrite
- 430' Glassy anhydrite, salt & red shale
- 436' Salt
- 450' Anhydrite & salt
- 460' Finely sandy red shale
- 480' Anhydrite & finely sandy red shale
- 488' Finely sandy red shale. Little gypsum
- 490' Anhydrite & finely sandy red shale
- 497' White to glassy anhydrite
- 505' Fine, silty, red sand
- 525' Finely sandy red shale
- 537' Glassy anhydrite & finely sandy red shale
- 545' Glassy anhydrite. Some salt. This may be cavings.
- 557' Finely sandy red & salt
- 565' Hard red shale
- 577' Finely sandy red shale
- 587' Fine, silty, red sand. Little red shale
- 600' Fine red to gray silty sand & sandy shale
- 608' Fine, silty, gray sand & finely sandy gray shale
- 625' Medium to fine gray sand. Some small frosted & rounded grains. In part the sand is silty. Some accessory dark minerals. Sand is tight. The zone 608' to 625' could probably be classed as the "Queen" producing zone equivalent of the Drickey-Queen area to the east.
- 644' Fine, light gray sand. Some dark accessory mineral that may be ilmenite
- 661' Medium to fine quartz sand. The sand is clean and carries only minor amounts of accessory minerals. A distinct odor of oil is present and traces of live oil staining can be seen microscopically. This staining is so light that practically no hydrocarbon material is taken into solution in carbontetrachloride.
- 669' Clear to reddish, fine quartz sand. No oil odor or any visible staining.
- 691' Fine, gray silty sand, sandy shale & anhydrite. No odor of oil or any visible evidence of staining.
- 703' Finely sandy red shale
- 728' Fine, reddish sand
- 740' Fine, reddish sand & white to glassy anhydrite
- 758' Red shale, anhydrite & salt. (Salt may be cavings)
- 785' Finely sandy red shale
- 813' Very fine, reddish sand
- 823' Very fine, silty, red sand
- 834' Finely sandy red shale & anhydrite
- 967' Very fine reddish sand. Could be classed as siltstone
- 977' Fine, clean, reddish sand
- 993' Fine, silty, red sand & some glassy anhydrite
- 996' White to glassy anhydrite

