

Lea YH Site #4
1980' FSL & 990' FEL

DST No. 3

Loc (Unit I) Sec 25 T18S R34E Co. Lea

Date 3/28/80

Pool A1 strip Bone Springs

Depths 9291' - 9352'

Formation 1st Bone Springs

NE

Ø

SW

Oil Gty

Gas Gty

5 Min IFP 379 psi (BHP) (314-411) Field

60 Min ISIP 2562 (2584)

60 Min FFP 509 incr. 1592 (BHP) (507-1591) Field

180 Min FSIP 2560 (2584)

Ip* 2562 psi

Fp* 2562 psi

K

S

CE

Theoretical Pot'l @ 100% CE

Ri

9430' drlg lm, sd & sh (78') in 6 hrs. @ 13'/hr. Poly 9#-32-1/32-10.5, DST #3 9291' - 9352' = 61'. Open tool f/5 min IF on 3/8" ck 2# surf press. 60 min ISI - 60 min flow w/3# on 3/8" ck. Decr to 1/2# 180 min FSI. Pec 66 bbl highly gas cut & slightly oil cut mud. Sampler 1100# - 3 cubic feet. Gas 1000 cc, 600 cc wtr, 500 cc mud emulsion. Temp 135°F, IH 4414, IF 314-411, FSI 2584 2nd, IF 507-1591, FSI 2584, FHYD 4414. Est cost - \$339,327 Rpt end 7A, 3-27-80. BERNARD

Remarks: All fluid recovered was gas cut & oil cut drilling mud, therefore, all cores, core permeability would be relative to drilling fluid & not oil. BHP is lower than offset wells on this lease. p* for offset production was 3500⁺ psi at time of drilling. Offset production history, fairly good pressure and evidence of hydrocarbon indicate a possible commercial zone. Recommend further evaluation after logging & testing of lower zones is completed. This zone correlates w/ 9250'± in YH #3 w/ BHP p* = 3747 psi. (DST #1)

Note: 675 BBLs of Dlg fluid beginning somewhere around 9300'± has been lost to the formation.

W. Lewis & Waterhouse

Note: Rapid Build-up may indicate we are close to water zone.

3/31/80

RL