

West Shugart "19" Field No. 1
Shugart Field
Eddy County, NM
Attachment I

8/29/98 Set 13-3/8" csg. @ 480', cmt to surface. Lead - 195 sx class 'H', 3% D-79, 1/4# per sx celloflake, 12 ppg, 2.89 yld. Tail - 156 sx class 'C', 2% cc, 14.8 ppg, 1.32 yld.

9/3/98 Set 8-5/8" csg. @ 2830', cmt to surface. Lead - 650 sx class 'C' w/3% D-79, 1/4# per sx celloflake, 12 ppg, 2.39 yld. Tail 265 sx class 'C' w/1% cc, 14.8 ppg, 1.32 yld.

9/26/98 TD @ 10,275', set 5-1/2" csg. @ 10,275', TOC @ 2950'. Stage tool @ 4804'. First stage - pumped 1025 sx 50/50 POZ H, 2% D-20, 5% D-44, 2% D-59, 14.2 ppg, 1.35 yld. Second Stage - Lead - 270 sx 35, 36 POZ C, 6% D-20, 5% D-44, 12.4 ppg, 2.14 yld. Tail - 50 sx Class 'C' Neat, 14.8 ppg, 1.32 yld.

10/3/98 Perforate 10,064-10,108' SPF, 60° phasing.

10/8/98 Isolate lower perfs 10,102-10,064' w/CIBP set @ 10,000', 35' cmt on top. Perforate 9704-9750' w/1 SPF, 60° phasing.

11/3/98 Isolate perfs 9704-9750' w/CIBP set @ 9650', 35' cmt on top.

11/4/98 Perforate Bone Spring @ 8177-8240' w/2 SPF, 60° phasing.