

THE SUPERIOR OIL COMPANY - GOVERNMENT "A" No. 1
1650' FNL & 1650' FWL, SECTION 10, T-22-S, R-34-E
LEA COUNTY, NEW MEXICO
GRAMA RIDGE (MORROW) FIELD

Attachment for U.S.G.S. Form 9-330

CORES

CORE (#1)	12,770-12,791	No recovery
CORE (#2)	12,820-12,870	Rec 50' as follows: 46' sh, sdy & limy in strks, 4' sd-fine gr, tight, no shows except sli bleeding of gas
CORE (#3)	12,870-12,920	Rec 49' sh w/few tight thin sd strks w/no shows
CORE (#4)	12,920-12,970	Rec 50' as follows: 32' sh w/thin strks silty sd, no shows, 3' sd, fine gr, tight, no shows; 7' sd, med-crs gr, trace to fair poro, sl gas odor; 8' sh as above
CORE (#5)	12,970-13,020	Rec 50' as follows: 6' sh; 2.5' sd, tight, no shows; 30' sh; & 11' sd, fine-med gr, tight w/sh partings, no shows
CORE (#6)	13,020-13,064	Rec 33' as follows: 8' sd, tight, w/sh partings & vert frac, no shows; 1' sh & 24' sd, med-crs gr, vert frac & few sh ptgs, tight to very low perm.
CORE (#7)	13,085-13,135	Rec 48' as follows: 15' sd, tight, no shows; 11' sd, trace to fair poro, sli gas odor; 22' sh

DRILL STEM TESTS

DST (#1)	13,017-085	(Morrow Sd) CFT, 6000' WC, 3/8" BHC. TO 3 hrs w/good blow decr to weak blow @ end of test. Rec WC & 3254' sli GCM. BHFP 4185 to 4513, 30" FSIP 5677 & incr, HP 8550 in & 8520 out, BHT 184°.
DST (#2)	13,087-135	(Morrow Sd) CFT, 2000' WC, 3/8" BHC. TO 30" w/weak blow to dead in 14". Failed to jar pkrs loose. Opened tool & loaded DP w/mud. POH. BHFP 876-876, 60" SIP 3095, HP 8597 in & out, BHT 184°.
DST (#3)	13,017-135	(Morrow Sd) CFT on 3-1/2" DP dry, 5/8" BHC. Opened tool w/strong blow & pkrs failed after 4 mins. Rec 2697' GCM. BHFP 1364.
DST (#4)	13,014-135	(Morrow Sd) CFT on 3-1/2" DP dry, 5/8" BHC - Pkrs failed immed. Rec 1640' GCM, BHFP 1929.
DST (#5-A)	12,957-13,135	(Morrow Sd) CFT on 3-1/2" DP dry, 5/8" BHC. TO open 11'40". Open w/strong blow, GTS 38". After tool open 55" gas vol 240 MCFPD w/17 psi surf press. MTS 5'40". Flow incr to 2.5 MMCFPD w/250 psi on 5/8" chk after making head of mud & gradullay decr to 60 psi & 750 MCFPD after tool open total of 10'10". Final TP 75 psi on 5/8" TC w/gas @ rate 900 MCFPD. Rec 1620' sli dist & heavily GCM plus 180 muddy wtr, 83 GPG. BHFP 1334-1580 Max 948, 2 hr FSIP 6994 & incr, HP 8490 in & 8440 out, BHT 182°.

