SAMPLE LOG

DRILL HOLE: Sartin #11
PROP. OWNER: F. Sartin
DRILL CONTRACTOR: Lamampco
DRILL OPERATOR: Jim Miller
DATE STARTED: 2/28/80
CASING LEFT IN HOLE:

LOC:

LOGGED BY: MRG
ELEV: 846.26
DATE COMPLETED: 3/3/80
TOTAL DEPTH: 302'

30 - 40 Limestone brown and grey, silty and crystaline, locally fossiliferous 100%
40 - 50 Limestone brown, silty and crystaline locally fossiliferous 60%; shale, black, silty 40%
50 - 60 Shale, black, silty 70%; siltstone, light grey, poorly indurated trace of pyrite crystals 30%
60 - 70 Siltstone, light grey, poorly indurated, locally carbonaceous trace of pyrite calcareous 100%
70 - 80 Siltstone, light grey, trace of pyrite 80%; limestone, light grey, silty 20%
80 - 90 Siltstone light grey, calcareous, trace of mica 100%
90 - 100 Shale, grey, silty 95%; siltstone, light grey, calcareous 5%
100 - 130 Shale, grey, silty 100%
130 - 140 Shale, grey, silty 80%; shale, black, silty very calcareous 20%
140 - 150 Shale, black, silty, very calcareous 80%; shale, grey silty, trace of pyrite 20%
150 - 160 Shale, black, silty, calcareous 90%; shale, grey silty slightly calcareous 10%
160 - 170 Shale, black, silty, calcareous 75%; shale, light grey, silty, trace of pyrite crystals; local inclusions of black well rounded metal oxides 1-mm 25%
170 - 176 Shale grey, silty 95%; limestone light grey, crystaline 5%
176 - 176 Shale, grey, very silty, locally micaceous 60%; sandstone, fine grained, brown, micaceous, locally carbonaceous 40%; U. V. - good show

CORE # 1 (176-196.4)

176-184 Sandstone fine grained, brown, micaceous; limestone 176-176.4 calcareous sand 176.4-177.5; carbonaceous laminations 179.8-180 approximately 80 from core axis 181.3-182 oil ooze 182.9-183.3 oil ooze; shale lamination ½" 182.0 shale pebbles 182.9 1" by ½" and 183.4-183.7 1" by 3/4"; entire interval oozes oil
184-187.7 Shale grey sandy lamination 184-185.1 and 187-187.7 little oil ooze
187.7-194.0 Sandstone fine grained, brown shale rip up clasts 190.4-191.3 2" by 3/4"; shale break 192.6 1"
194.0-195.0 Shale grey finely laminated with carbonaceous material throughout sandy 194.8-194.9
195.0-196.9 Sandstone brown 195-195.8; 195.8-196.4 shale grey; First presence of water 182.3; core oozes oil 176-184; pit show rainbow; light cover

196 - 200 Sandstone, fine grained, brown and grey micaceous locally carbonaceous 90%; U. V. - good show; shale, black, silty 10%

CORE # 2 (202-223)

202-205.6 Interlaminated shale mica; sandy 204.1-204.9 and 205.1-205.5; pure sand 202-202.7; shale pebbles 202.2-202.7 1" by ½"; no oil ooze in interval

205.6-223.0 Sandstone, fine grained, grey, micaceous; brown sand 205.6-207.2; shale break 205.7 1" approximately 80 from core axis; 209.9-210.2; 216.6-216.9 contacts gradational here; limestone 220.5-221.2 top contact approximately 45 from contact and irregular bottom contact horizontal and regular; shale pebbles 211.1 1" by 3/4"; 219.2-213.4 2" by ½"; 215.8 ½" - ½"; 216.9-217.3 (rip up clasts) 3" by 2"; tip up clasts 222.1-223.0 3" by 2"; fractures approximately 45 with slick sides 212.7-& 210.1; sand becomes asphaltic below 207.5;
Core is water saturated; pit show unchanged

CORE # 3 223-242.9

223-231.7 Interlaminated shale & sand, laminations are horizontal fine and numerous in interval; clean and 224-225 top contact regular approximately 75° from core axis; bottom contact irregular high angle approximately 45 from core axis; irregular carbonaceous lamination associated with contact; sandy streaks are brown

231.7-242.9 Shale, grey, silty uniform throughout from 236.3-242.9; few sandy laminations 231.7-236.3; none are brown, all light grey Core oozes no free oil; core appears to be water wet; pit show unchanged

243 - 250 Shale, dark grey, silty, 100%

250 - 260 Shale, grey, silty trace of pyrite 55%; shale, black, calcareous 40%; chert, brown 5%

260 - 270 Shale, grey, poorly indurated; shale, black, trace of pyrite

270 - 280 Shale grey, silty; shale black, silty, slightly calcareous chert brown 5%

280 - 290 Siltstone, light grey, local inclusions of sub rounded light brown, metal oxides 1-3mm 85%; limestone brown silty 10%; shale black, silty 5%

290 - 300 Shale grading to siltstone, light grey 100%