SAMPLE LOG

DRILL HOLE: Sartin # 21
PROP. OWNER: F. Sartin
DRILL CONTRACTOR: Lamampco
DRILL OPERATOR: Jim Miller
DATE STARTED: 2/12/80
CASING LEFT IN HOLE:

LOC:

LOGGED BY: MRG
ELEV: 844.62
DATE COMPLETED: 2/14/80
TOTAL DEPTH: 301'

30	-	40	Limestone, brown and grey, crystaline and silty; locally fossiliferous 75%; shale, black, silty 25%
40	-	50	Limestone, brown, crystaline, favosities corals 100%; U. V. - poor show
50	-	60	Limestone, brown, crystaline, massive 80%; U. V. - poor show; siltstone, grey, trace of pyrite, poorly indurated 20%
60	-	70	Siltstone, very fine grained sandstone, grey and brown; trace of pyrite, 100%
70	-	80	Limestone, brown, crystaline, massive 35%; shale grey silty carbonaceous 35%; Siltstone grey, carbonaceous 30%
80	-	90	Shale, grey silty carbonaceous 80%; siltstone grey carbonaceous 20%
90	-	110	Shale, grey, silty carbonaceous 95%; Limestone brown 5%
110	-	130	Shale, grey, silty, carbonaceous
130	-	140	Shale, grey 80%; shale, black, trace of pyrite, calcareous 20%
140	-	150	Shale, grey 50%; shale, black, limey, very calcareous 40%; coal 10%
150	-	160	Shale, dark grey-black, silty, calcareous 80%; Limestone brown, massive crystaline 15%; shale, light grey, poorly indurated 5%
160	-	170	Shale, black, silty, trace of pyrite, locally calcareous 60%; shale, light grey, trace of pyrite crystals 30%; sandstone, very fine grained, brown and grey, trace of mica 10%
170	-	178	Shale, dark grey, silty carbonaceous 70%; siltstone grey, carbonaceous and micaceous 10%

CORE # 1 (178-192.2)

178	-	179.7	Shale grey; pure sand 178.3-179 interlaminated shale and sand (179.0-179.5)
180	-	191.1	Sandstone, fine grained, micaceous and carbonaceous; carbonaceous laminations 181.9-182.1; slight oil ooze at 182.0; (186.0-187) no oil ooze here (187-190) very soft poorly indurated sand approximately 3" core loss (187-188), 6" core loss (188-189); 6" core loss (189-190); carbonaceous laminations ½" at 190 very slight oil ooze here, plant fragments on broken surface at 190.9
191.1	-	192.2	Shale grey finely laminated with carbonaceous material first water 182.8; pit show poor; core oozes little to no free oil

CORE # 2 (192.2 - 211.6)

192.2 - 210.7	Sandstone, fine grained brown micaceous with lims throughout. Carbonaceous laminations (192.2-193.3) very slight oil ooze; (194.9-195.7) no oil ooze here; (196.9-198.7) very slight oil ooze here; (203-203.2) very slight oil ooze here. Shale pebbles 193.3 ½" by ½" nearly horizontal; 199.8 ½" by ½" oriented nearly horizontal to 65° from core axis; interlaminated shale sand and carbonaceous material (195.8-196.9); sand becomes dark and asphaltic below 201.8; relic bedding planes 203.5-204.1, oriented nearly horizontal to 70° from core axis; vertical to horzontal frac 208.9-209.0
210.7 - 211.4	Coal; some shaley laminations below 211.0; shale pebble 211.2 ½" by ½"
211.4 - 211.6	Shale grey; sandy at 211.6 core oozes little free - no free oil; carbonaceous laminations only. Water present on all freshly broken surfaces; pit show rainbow only
210 - 215	Shale, light grey, trace of pyrite poorly indurated 80%; sandstone, fine grained, brown, micaceous and carbonaceous 10%; shale, black, trace of pyrite 10%
215 - 220	Shale, light grey, local concentrations of light brown well rounded (1-3mm) metal oxides, poorly indurated; shale, black, pyrite 90%; limestone brown, massive crystaline 10%
220 - 230	Sandstone, very fine grained grey, carbonaceous 70%; shale, grey, silty 20%; shale black 10%; U. V. - poor show
230 - 240	Siltstone to very fine grained sandstone, micaceous, locally carbonaceous trace of pyrite 100%; U. V. - poor show
240 - 250	Shale, dark grey black, calcareous 50%; shale, grey, silty 40%; coal 10%
250 - 260	Shale, black, trace of pyrite, calcareous 60%; shale grey silty 40%
260 - 270	Shale, black, trace of pyrite, calcareous 60%; limestone, brown crystaline 20%; shale, light grey silty locally carbonaceous 20%
270 - 280	Shale, grey, silty poorly indurated 45 %; shale, black calcareous 40%; limestone, tan, crystaline 15%
280 - 290	Shale, light grey, local concentrations of light brown well rounded 1-3mm metal oxides 90%; shale, black 10%
290 - 301	Shale, light grey - greenish local concentrations of light brown sub rounded 1-3mm metal oxides 80%; shale, black 20%