

— SIDEWALL CORE DESCRIPTIONS

PAN AMERICAN PETROLEUM CORP. UNION CAMP C-1
 100' FSL, 100' FWL 59N and 122E
 Camden County, Georgia

<u>DEPTH</u>	<u>RECOVERY</u>	<u>DESCRIPTION</u>
1647	1 1/2"	Limestone, white to cream, granular, sli. glauconitic, odor of diesel fuel, no fluorescence
1678	1"	Gypsum, white, v.f. xln, non-effervescent
1707	1"	Dolomite, tan, v.f. granular, sandy, very glauconitic, has questionable oil stained appearance, no odor, no fluorescence
1748	1 1/4"	Limestone, white to gray, finely granular, very sandy, very many fine specks of glauconite and phosphate, strong odor of diesel fuel, no fluorescence
1866	1 1/4"	Limestone, white to cream, granular, strong odor of diesel fuel, no fluorescence
1954	1 1/2"	Limestone, white to cream, chalky, strong odor diesel fuel, no fluorescence
2006	1 1/2"	Limestone, white to light gray, granular much white gypsum, sandy, black specks of phosphate, odor of diesel fuel, no fluorescence
2050	1 1/2"	Limestone, white, soft chalky, strong odor of diesel fuel, no fluorescence
		<u>Note:</u> At a depth of 2066', 1100 gallons of diesel fuel was spotted in an effort to free stuck drill pipe. After soaking for 13 hours with no results, an additional 1100 gallons of diesel fuel was spotted, with no success. A fishing job followed, no additional drilling was done for 5 days. The odor referred to above is definitely felt to be an odor from the diesel fuel which was spotted.
2080		No recovery
2165	1 3/8"	Limestone, white to lt. gray, soft, chalky, marl
2241	1 1/4"	Limestone, gray, very impure, very argillaceous, thin streaks of gray pyritic shale
2299	1 1/8"	Limestone, gray, chalky, marl
2364	1 1/2"	Limestone, white to lt. gray, chalky, included fragments

2359	1 1/8"	Limestone, gray, chalky, marl
2364	1 1/2"	Limestone, white to lt. gray, chalky, included fragments of gray dense ls.
2420	1"	Limestone, white, chalky, marl
2448	7/8"	Limestone, gray, very shaly, marl
2486	1"	Limestone, lt. gray to tan, dense, shattered
2516	1"	Dolomite, gray, mealy
2586	?	Dolomite, tan to brown, dense, hard, tight, core badly shattered
2605		No recovery
2647	1"	Limestone, white, chalky, marl
2774	1/4"	(Schlumberger called no rec.) white gypsum
2833	1"	Limestone, white, chalky, marl
2896	1 3/8"	Limestone, white, chalky, some tan calcite inclusions
2935	1 5/8"	Limestone, white, chalky, marl
2949	1"	Limestone as above
2989	1 1/2"	Limestone as above
3041	1 1/8"	Limestone, white, cream to tan, dolomitic, sandy
3066	1/2"	Dolomite, tan to lt. brown, fine to med. xln., sucrosic in part
3098	1"	Limestone, white to lt. gray, chalky
3102	1 1/2"	Limestone as above
3113	1 1/8"	Limestone as above
3136	1 1/8"	Limestone, white, chalky
3180	1 3/8"	Limestone as above
3239	7/8"	Limestone, white to lt. gray, chalky
3289	3/8"	Gypsum? white, v.f. xln. or granular, non-effervescent (possible volcanic ash or pumicite?)
3324	3/8"	Limestone, lt. gray, chalky
3337	5/8"	Limestone, lt. gray, shaly, traces of thin bedded columnar, aragonite
3344	1/2"	Limestone, gray, granular, with v. small glauconite and black phosphate specks
3483	1"	Limestone, soft, white, chalky
3583	1/2"	Limestone as above
3586	3/4"	Limestone as above
3623	1/2"	Limestone, soft, white, chalky
3662	1/2"	Limestone, white, chalky, thin stringers of gray shale
3702	3/4"	Limestone, white to lt. gray, chalky
3721	3/8"	Limestone, white to lt. gray, shaly, chalky
3754	1 1/4"	Shale, gray to gray green, calcareous
3792	3/4"	Shale, gray to gray green, calcareous, some inclusions of limestone and aragonite

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3830	3/4"	Shale, gray, very calcareous
3832	1 1/4"	Shale, gray, very soft, calcareous
3841	3/4"	Limestone, gray, shaly, chalky, a very thin bed of white aragonite with columnar structure--possible replacement of fossil material?
3846	3/8"	Limestone, white to lt. gray, chalky, sli. shaly
3852	1/2"	Limestone, gray, very shaly, silty, pyritic
3876	1 1/8"	Shale, lt. gray green
3935	1 1/2"	Shale, gray to gray green
3991	3/8"	Shale, gray to gray green, v. finely pyritic
4020	5/8"	Shale, gray, firm, calcareous
4053	1/2"	Shale as above
4100	1"	Shale, gray, silty, pyritic, sli. calcareous
4124	1"	Shale, gray, v. sli. micaceous
4176	3/8"	Shale, gray, soft, silty, much drilling mud
4200	3/4"	Shale, gray, gray green, soft, clean
4210	1 1/4"	Shale, lt. gray to gray, sli. silty
4241	1"	Shale, gray, silty, sli. micaceous
4251	1"	Siltstone, gray green, very shaly, micaceous, very thin beds of pyrite
4259	1 3/4"	Shale, gray green, silty, micaceous, firm
4262	1 5/8"	Shale, gray green, silty & micaceous in part
4272	1 5/8"	Shale, gray to gray green, firm
4284	1 1/2"	Shale, gray green, with scattered thin stringers gray siltstone to v.f. grained sandstone
4291	1 3/4"	Shale, gray green, very silty, finely micaceous
4296	1 5/8"	Sandstone, lt. gray to gray, v.f.-fine grained, shaly, finely micaceous, finely glauconitic, sli. calcareous, poorly cemented, friable
4304	1 3/4"	Sandstone as above
4318	3/4"	Sandstone as above
4323	1 5/8"	Shale, gray green, sli. silty
4358	1 1/2"	Shale as above
4367	1 5/8"	Shale as above
4386	1 3/4"	Shale, gray to gray green, sli. silty, sli. micaceous
4401	1 1/2"	Shale, gray green, soft, very clean
4423	1 3/4"	Shale, gray to gray green, v. finely silty
4443	1 3/4"	Shale as above
4469	1 1/4"	Shale as above, sli. micaceous
4486	1 1/8"	Shale as above, more micaceous

4443	1 3/4"	Shale as above
4469	1 1/4"	Shale as above, sli. micaceous
4486	1 1/8"	Shale as above, more micaceous
4497	1 1/2"	Shale, gray green, soft, very sli. amt. v.f. mica, silty
4511		No recovery
4521	1 5/8"	Shale, as above
4537	1 5/8"	Shale as above, less silty
4573		No recovery

DIAMOND CORE NO.1 4585-94 Cut 9', Rec.7 4' sandstone, v.f. grained, tight, quartzitic, clear, white, gray w/irregular partings and fractures containing yellowish limonite and red to red brown hematite coloration indicating some weathering action, fine pyrite disseminated throughout. 3' quartzitic sandstone to quartzite, gray to dark gray to black, glassy, scattered pyrite, some irregular partings containing hard, black, slightly carbonaceous shale.

DIAMOND CORE NO.2 4594-4600 CUT 6' Rec.6' 6' gray to dark gray, v.f. to f. grained, hard, quartzitic, glassy, pyritic sand, fractured and badly broken in last 2' @ 4598 had 1/2" shale, hard, dark gray to black, silty, micaceous.

7