

Sunniland Quad

Well No. 1142 [W-15,754] Elevation G.L. 20.3' D.F. 42.5' K.B. 44.0'

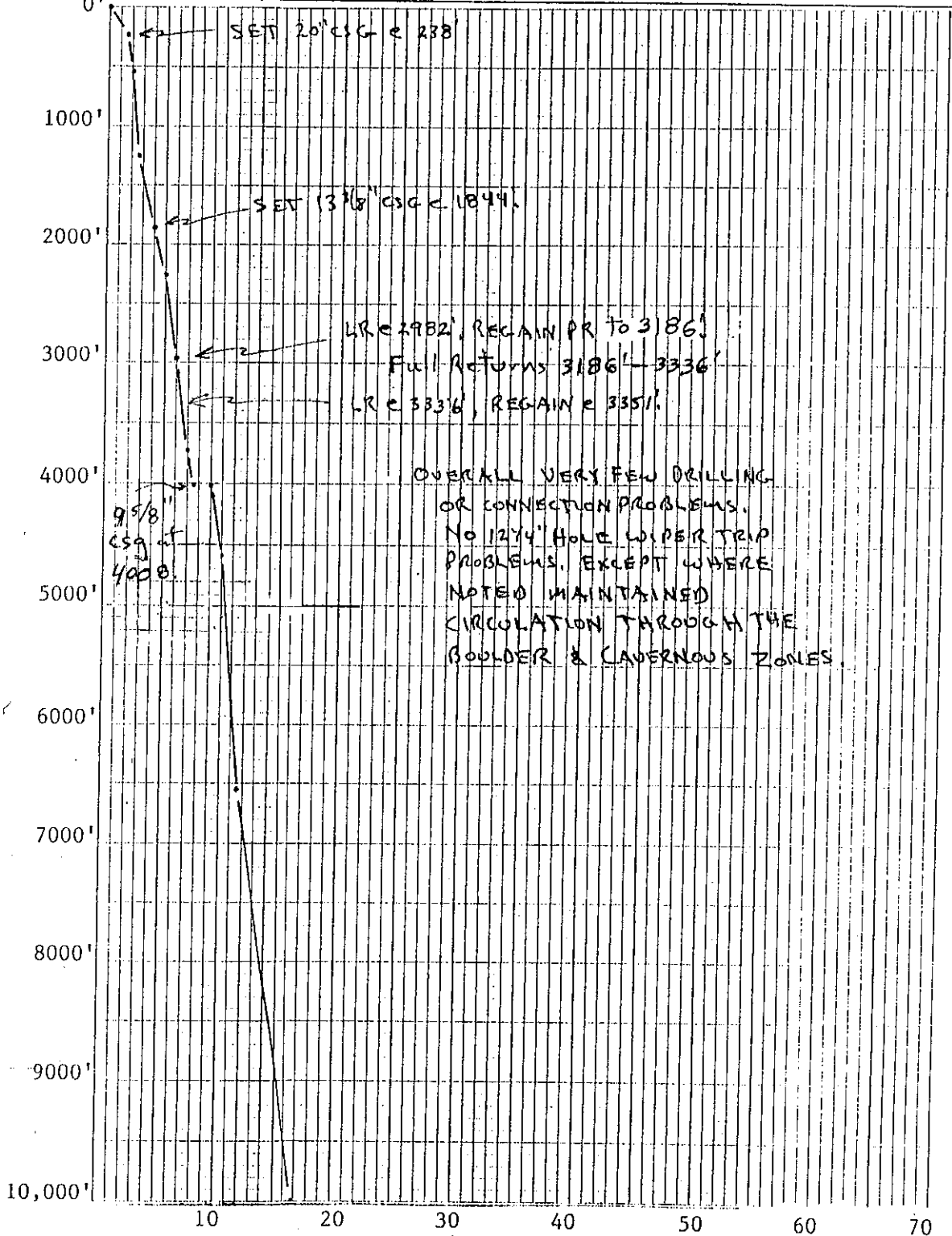
Location 271.5' FNL, 2114.35' FWL County Collier

Sec. 19 T 48S R 30E TD 11,764'

Well or Owner's Name Exxon 19-2 Collier Company

Data Source Fort Myers O/G Well Files

DEPTH BELOW D.F.



DAYS DRILLING

#1142 Exxon 19-2 Collier Corp.  
 Sec. 19, T48S R30E  
 Spud 1/28/85

Brief Geological Log by R. S. Caughey, March 1985

- 0- 30 White, extremely fossiliferous Ls, v. porous reef-type fossil hash.
- 30- 60 Largely as above, but some lt tan fos Ls w/minor fine grained sand in Ls.
- 60- 90 About 50/50 lt tan, sandy fos Ls & gray sandy Ls, & some gray Ls w/o sand.
- 90-120 60% gray, sandy to v. sandy fos Ls, & 40% lt tan sandy to v. sandy fos Ls, some blk grains & granules occasionally up to 3%.
- 120-150 Largely rounded qtz sand grains & granules, and some blk grains & granules - rarely a blk pebble.
- 150-180 As above and blk grains & granules somewhat more common.
- 180-210 As above.
- 210-240 75% as above, 25% beige & white fos Ls & sandy fos Ls; also sm brown sandstone.
- 240-270 90% round qtz sand grains & granules, and 10% white med grained, rounded qtz sandstone.
- 270-300 As above.
- 300-330 Green "gumbo" clay - Dolosilt.
- 330-360 20% green "gumbo" clay, 80% beige to tan silty & clayey fos Ls w/common blk grains.
- 360-390 White to beige v. fos silty Ls w/  $\frac{1}{2}$ % blk brn grains.
- 390-420 As above, but some Ls units are also sandy.
- 420-450 As above, but slightly more blk/brn grains.
- 450-480 85% beige, silty slightly sandy fos Ls w/1% blk grains, and 15% gray/green rextalized fos Ls w/sm blk grains.
- 480-510 Largely wh to beige fos sandy & silty Ls, & 1-3% blk/brn grains.
- 510-540 80% beige v. silty, sandy Ls w/2-4% blk/brn grains, and 2% beige calcareous, clayey siltstone w/1-2% blk grains.
- 540-570 Largely beige to white clayey siltstone w/1% blk grains.
- 570-600 60% as above w/40% med gray claystone.
- 600-630 About equal mixture of beige v. clayey silty v. fos Ls, beige clayey siltstone & gray claystone.

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- 630- 660 As above w/perhaps less Ls & more clays.
- 660- 690 Largely beige to white clayey v. fos Ls, rare blk grains, sm beige v. clayey fos Ls, and +1% blk grains.
- 690- 720 90% beige v. clayey fos Ls, +1% blk grains, and 10% gray clay stone.
- 720- 750 As above.
- 750- 780 Beige, silty & locally sandy fos Ls, and sm blk grains.
- 780- 820 Largely white v. sandy fos Ls, 1-3% blk/brn grains.
- 820- 850 As above.
- 850- 880 As above, but sm units are v. clayey and sm units have blk & brn grains & granules.
- 880- 910 Largely beige v. clayey, slightly sandy fos Ls, and 41% blk/brn grains.
- 910- 940 As above but perhaps less clayey & locally more sandy.
- 940- 970 Sample missing.
- 970-1000 Lt gray & beige clayey sandy Ls, and blk/brn grains 41%.
- 1000-1030 As above but most units appear more fossiliferous.
- 1030-1060 Same as above but largely gray silty calcareous fos claystone.
- 1060-1090 Missing.
- 1090-1120 Largely beige slightly silty fos Ls, some lt tan coarsely rextalized Ls and some lt gray, fine grained v. fos Ls w/5-10% blk & brn grains & granules.
- 1120-1150 Missing.
- 1150-1180 Beige to lt tan v. fos & locally silty Ls; Lepidocyclina are abundant and Camerina are common.
- 1180-1210 As above but now sample is about 60-70% Leps & Camerina fossils.
- 1210-1240 Missing.
- 1240-1270 Same as 1180-1210 w/perhaps less Leps & Camerina & more echinoids, etc.
- 1270-1300 Missing.
- 1300-1330 Same as 1240-1270 w/Camerina more abundant than Lepidocyclina.
- 1330-1360 Missing.

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- 1360-1390 Missing.
- 1390-1420 Beige, clayey fos Ls, abundant Camerina, and some Lepidocyclina.
- 1420-1450 60% as above, 20% gray tan clays , and 20% lt brown dolomite.
- 1450-1480 Missing.
- 1480-1510 Missing.
- 1510-1540 Beige, v. fos clayey Ls and some D. cookei.
- 1540-1570 As above but less fossiliferous & more clayey D. cookei still present.
- 1570-1600 As above.
- 1600-1630 As above.
- 1630-1660 Beige-lt tan, v. fos, slightly clayey Ls, and some lt tan xln Ls;
- 1660-1690 As above w/some lt gray & lt tan xln Ls.
- 1690-1720 As above w/D. cookei present and rare carbonaceous matter in Ls.
- 1720-1750 As above.
- 1750-1780 As above w/about 40% beige/white v. fossiliferous porous less clayey Ls, D. cookei present and rare carbonaceous matter.
- 1780-1810 As above w/D. cookei present.
- 1810-1840 As above w/a little tan xln Ls.
- 1850-1880 As above w/D. cookei common and a little brown Dol.
- 1880-1900 As above w/D. cookei common and 10% brn xln Dol.
- 1900-1930 As above.
- 1930-1960 As above w/D. cookei common, first D. americanus observed, and some carbonaceous matter in Ls.
- 1960-1990 50% beige clayey fos Ls, 40% lt tan slightly clayey to carbonaceous Ls, 10% yellow clear selenite, D. cookei common, and D. americanus present.
- 1990-2020 As above.
- 2020-2050 As above but clear & yellow transparent selenite as 60%.
- 2050-2080 50% selenite as above, and 50% beige, clayey v. fos porous Ls.

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2080-2110 Largely white v. clayey fos Ls.

2110-2140 As above.

2140-2170 90% as above, and 10% brn & dark brn xln dolomite.

2170-2200 85% as above, 10% gray/brn to dk gray dolomite, and 5% brn coarsely xln dolomite.

2200-2230 50% brn & dk brn xln dolomite, and 50% milky white anhydrite.

2230-2260 Largely brn & lt brn coarsely xln dolomite and a little milky white anhydrite.

2260-2290 90% brn tan & dk brn coarsely xln dolomite, and 10% milky white anhydrite.

2290-2320 As above but w/about 50/50 proportions.

2320-2350 60% white/beige clayey fos Ls w/sm dolomite, 40% tan & brown coarsely xln dolomite and a little anhydrite as before.

2350-2380 50% Ls as above, 40% tan & brn coarsely to finely xln dolomite and 10% dark gray finely xln dolomite.

2380-2410 As above but 70% brn dolomite, 20% Ls & 10% gray dolomite; also most brn dolomite is finely xln.

2410-2440 Largely lt tan & tan finely xln dolomite often w/small vugs of which sm are med to coarsely xln w/ a little clear selenite.

2440-2470 As above plus 15% white/beige clayey fos Ls and 15% gray finely xln dolomite.

2470-2500 White, lt tan & tan fine to med xln dolomite & sm w/small vugs, and 10% brn fine to med xln dolomite.

2500-2530 Largely lt tan med xln dolomite and small vugs not uncommon.

2530-2560 60% white & lt tan med xln dolomite as before, and 40% dirty white, clayey fos Ls as before.

2560-2590 80% dirty white clayey fos Ls, and 20% white & lt tan med xln Dol.

2590-2620 As above but less Dol.

2620-2650 Largely white clayey fos Ls w/sm white finely xln Ls.

2650-2680 Largely white clayey "chalky" fos Ls & sm is dolomitic.

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- 2680-2710 As above.
- 2710-2740 As above w/5% brn, finely xln dolomite.
- 2740-2770 As above.
- 2770-2800 As above w/30% brn finely xln dolomite commonly w/small vugs.
- 2800-2830 As above.
- 2830-2860 Largely white, finely xln slightly clayey Ls; some white clayey fos Ls, and 20% brn med xln Dol.
- 2860-2890 As above but w/30% brn Dol.
- 2890-2920 Largely white clayey fos Ls, common white clayey fos, dolomitic Ls, and 30% brn dolomite as above.
- 2920-2950 Largely tan & brn dolomite; dolomite is generally a mass of interlocking small dolomite rhombs w/small vugs common.
- 2950-3130 Only partial returns; no cutting back to surface.
- 3130-3160 100% fine to coarsely xln dolomite; most is lt tan & tan while some is gray to nearly black.
- 3160-3190 White, lt tan & tan, coarsely xln dolomite.
- 3190-3220 As above w/20% drk brn & black xln dolomite.
- 3220-3250 As above w/sm white clayey Ls.
- 3250-3280 As above.
- 3280-3310 About equal amounts of lt tan, tan & drk brn & black med xln dolomite.
- 3310-3340 Largely fine to med xln, white, beige & tan dolomite w/sm blk & dk brn dolomite.
- 3340-3370 As above.
- 3370-3400 As above w/15% white, finely xln Ls.
- 3400-3430 Largely dolomites as above but now sm milky white Anhy & possible white anhydritic Ls.
- 3430-3460 Dolomites as above w/sm minor milky Anhy & 10% wh, clayey fos Ls.
- 3460-3490 As above but less Anhy.
- 3490-3520 Largely tan & brn & dk brn med xln dolomite and sm white, clayey Ls.

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Company Exxon Fee Collier Comp. 19-2

Location: SHL 271.49' FNL, 2114.35' FWL Sec. 19 T. 48S R. 30E  
 BHL \_\_\_\_\_ Sec. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_

Elevation: G. L. 20.3' D. F. 42.5' K. B. 44.0' Depth Measured from KB

Spud: 1/28/85 Completed 12/29/85 Status T&A 3/18/86

Logs BHC Sonic 4006'-11,760'; DIL 4006'-11,758'; FDC/CNL/GR 9300'-11,761';  
Dipmeter 10,500'-11,800'

Casing Record 20" csg @ 238' w/750 sx; 13 3/8" @ 1844' w/1600 sxs;  
9 5/8" csg @ 4008' w/400 sx; 7" csg @ 11,759' w/1540 sxs

This log prepared by C. Cook Date 9/25/86

Remarks Lost Returns @ 2982'. Regained intermittent returns 2982'-3186'. Full returns  
below 3186'.

Drilling Rate min/ft.			Lith.	Depth	Description/Remarks
5	10	15			
					Wh, fos Ls; fos hash; sm lt tan, fos Ls w/fg sand in Ls.
				100'	Lt tan, sandy, fos Ls & gray, sandy Ls; sm gray Ls w/o sand. Gray, sandy, fos Ls; lt tan, sandy Ls, 3% bl grs & grns. Largely rnd qz sand grs & grns w/bl grs & grns.
				200'	75% as above; 25% lt tan & wh, fos Ls & sandy, fos Ls; sm brn Ss. 90% rnd Qz sand grs & grns & 10% wh, med grained, rnd Qz Ss.
				300'	Green "gumbo" clay - Dolosilt. 20% green "gumbo" clay; 80% lt tan to tan, silty & clayey, fos Ls w/common bl grs.
				400'	Wh to lt tan, v. fos, silty Ls w/±½% bl & brn grs; sm sandy Ls. As above w/more bl/brn grs.
				500'	Lt tan, sandy, silty Ls, 1-3% bl/brn grs, gray/green, fos Ls w/sm bl grs. Lt tan, silty, sandy Ls w/2-4% bl/brn grs; lt tan, calc, clayey siltstone w/1-2% bl grs; lt tan to wh, clayey, siltstone w/1% bl grs & med. gray, claystone.
				600'	Lt tan, clayey, silty, fos Ls; lt tan, clayey siltstone & gray claystone. Lt tan to wh, clayey, fos Ls, rare bl grs; sm lt tan, clayey, fos Ls & ±1% bl grs.
				700'	90% lt tan, clayey, fos Ls, ±1% bl grs & 10% gray claystone. Lt tan, silty, sandy, fos Ls & sm bl grs.
				800'	Wh, sandy, fos Ls; 1-3% bl/brn grs, sm units v. clayey.
				900'	Lt tan, clayey, sandy, fos Ls & <1% bl/brn grs.
			NS		No sample.
				1000'	Lt gray & lt tan, clayey, sandy Ls & bl/brn grs <1%.

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Drilling Rate min/ft.			Lith.	Depth	Description/Remarks
5	10	15			
					As above; sm units more fossiliferous; gray, silty, calc, fos claystone.
			NS	1100	No sample. Lt tan, silty, fos Ls; lt tan Ls; lt gray, fos Ls w/5-10% bl/brn grs & grns.
			NS		No sample.
				1200	Lt tan, silty, fos Ls; common to abundant <u>Lepidocyclina</u> & <u>Camerina</u> .
			NS		No sample.
				1300	As above w/less <u>Leps</u> & <u>Camerina</u> & more echinoids, etc. No sample.
			NS		No sample.
				1400	As above w/more <u>Camerina</u> than <u>Leps</u> . No sample.
			NS 20.0		No sample.
				1500	Lt tan, clayey, fos Ls, abundant <u>Camerina</u> , some <u>Leps</u> ; gray-tan clays & brn dolomite. No sample.
			NS		No sample.
				1600	Lt tan, fos, clayey Ls, sm <u>D. cookei</u> . Toolpusher reported slowed drilling down to reduce mud weight.
				1700	Lt tan, fos, clayey Ls; sm lt tan, xln Ls; sm lt gray, xln Ls. As above w/ <u>D. cookei</u> present & rare carbonaceous matter in Ls.
				1800	As above w/40% lt tan/wh, fos, porous, less clayey Ls, <u>D. cookei</u> present & rare carbonaceous matter. As above w/a little tan, xln Ls.
				1900	As above w/ <u>D. cookei</u> common & sm brn Dol to 10% brn, xln Dol.
				2000	As above w/ <u>D. cookei</u> common, <u>D. americanus</u> & sm carbonaceous matter in Ls. 50% lt tan, clayey, fos Ls; 40% lt tan, clayey to carbonaceous Ls; 10% yellow-clear selenite, <u>D. cookei</u> common & <u>D. americanus</u> present.
				2100	As above but clear & yellow, transparent selenite as 60%. 50% selenite as above, 50% lt tan, clayey, fos, porous Ls. Largely wh, v. clayey, fos Ls.
					85-90% as above; gray/brn to dk gray, Dol, 5-10% brn to dk brn, xln Dol.



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Drilling Rate min/ft.			Lith.	Depth	Description/Remarks
5	10	15			
				2300	Lt brn to dk brn, xln Dol; sm to 50% wh Anhy.  Brn to dk brn, xln Dol & 10-15% wh Anhy.
				2400	Wh/lt tan, clayey, fos Ls w/sm Dol; tan & brn, xln Dol; sm gray Dol & a little Anhy as above.
				2500	Lt tan & tan, xln Dol; wh/lt tan, clayey, fos Ls; gray, xln Dol & sm clear selenite.
				2600	Lt tan to brn, med xln Dol & wh, lt tan to tan, fine to med xln Dol.  Wh to lt tan, med xln Dol & lt gray/wh, clayey, fos Ls.
				2700	Wh, clayey, fos Ls w/sm wh, finely xln Ls; wh, clayey, chalky, fos Ls - sm dolomitic.
				2800	As above w/5% brn, finely xln Dol.  As above.
				2900	Wh, finely xln, slightly clayey Ls; sm wh, clayey, fos Ls; brn, med xln Dol.
				3000	Wh, clayey, fos Ls; wh, clayey, fos, dolomitic Ls; tan to brn Dol w/sm dolomite rhombs & small vugs. Lost returns @ 2982'. Regained intermittent returns between 2982'-3186'. Regained full returns below 3186'.
				3100	
				3200	Lt tan, tan, gray, dk brn & bl, xln Dol.  As above w/sm wh, clayey Ls.
				3300	Lt tan, tan, dk brn & bl, med xln Dol.  Fine to med xln, lt tan to dk brn to bl Dol.  As above w/15% wh, xln Ls.

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Drilling Rate min/ft.			Lith.	Depth	Description/Remarks'
5	10	15			
					Dol as above w/sm wh Anhy & possible wh, anhydritic Ls.
					Dol as above w/sm minor wh Anhy & wh, clayey, fos Ls.
				3500	Tan to brn to dk brn, xln Dol & wh, clayey Ls.
					Wh/lt tan, clayey, fos Ls - sm dolomitic, tan to brn to dk brn, xln Dol & wh Anhy.
				3600	As above w/anhydritic Ls.
					Wh, clayey Ls & tan to brn to dk brn, xln Dol; rnd Qz grns & bl grns (possible contamination).
				3700	
					Wh to lt tan Dol (in rhombs) & minor wh, clayey Ls.
				3800	As above w/more Ls & sm minor selenite associated w/Dol.
					As above w/5% wh Anhy.
					As above w/20% clayey Ls.
				3900	Lt gray to gray, fg Ls w/minor Dol; sm wh, clayey Ls; wh Anhy; tan & brn Dol & a few rnd Qz grns.
				4000	Wh gypsum, Anhy & selenite.
					As above w/limonite/goethite inclusions
				4100	
					Wh to lt tan Anhy.
				4200	As above & 30-40% lt gray, fg Dol.
					Lt tan & lt gray/wh, fos & clayey Dol w/sm Anhy.
				4300	Wh/gray Anhy.
					60/40% Anhy & Dol. as above.
				4400	Wh & gray, transparent Anhy.
				4500	