

CR 1.03

March 21, 1958

File: CR-30

Subject: WELL DATA FROM THREE TESTS
DRILLED BY UNION OIL OF CAL.
IN COSTA RICA

AM-62

Mr. H. A. Wright
Producing Coordination
30 Rockefeller Plaza
New York 20, N.Y.

Dear Sir:

Under separate cover we are sending you well data as listed in an attachment to this letter from the following tests drilled by Union Oil of California in Costa Rica:

<u>Well</u>	<u>T.D.</u>
Fatino No. 2	10,128'
Cocoas No. 2	7,407'
Bris No. 1	7,969'

A general summary is attached for each well.

The material on these Union Oil of California wells in Central America was the result of an agreement signed on January 16, 1958 between Esso Standard Oil, S.A. and Union Oil of California. Union agreed to furnish Esso with information on the wells listed above and Esso agreed to furnish Union with information from its Bafios No. 1 drilled in Cuba and such other wells Esso drills in the Caribbean area, that in their opinion the release of information is not detrimental to them. The exchange includes samples and general well information such as logs, DSTs, etc. and is on a foot for foot basis.

We have the same set we are sending you in our Havana office. The purpose of sending you a set is for security and your use.

Very truly yours,

ESSO STANDARD OIL, S.A.

ORIGINAL
SIGNED J. H. SAWYER

J. H. Sawyer

AS:er

Atts.

CR.1.03

Union Oil Company of CaliforniaPat180 No. 2

Location: 5 Kms. southwest of Puerto Viejo in SE Limon Province
(Caribbean side), Costa Rica.

Coordinates: Lat. 9° 39' 14" - Long. 82° 48' 10"

Dates: Commenced: 2/21/55
Completed: 4/19/55

Status: D & A

Total Depth: 10,128' formation unknown as yet. Probably Eocene.

Shows: No oil or gas shows.

DST's: None.

Location based on: Surface: Puerto Viejo Anticline.

General Dip - SW 55°.

Electric Log: Shale line thruout.

3,500 - Fresh water.

3,880 - 3,920 - Fresh water.

4,270 - 4,310)

4,380) Probably salt water.

6,640 - 6,660)

6,750 - 6,860)

Log indicates poor prospects for oil production
because of shaly nature.

Note: Attempted to run E log to TD of 10,128' but cable would not go
below 8,050'.

List of material received to date:Electric logs

Run 1 0 - 1,130'

Run 3 2,100' - 3,051'

Run 4 2,950' - 4,368'

Composite Log Runs 1 thru 8 0 - 9,124'

Extra Curves

ES-3 2,090' - 3,050'

ES-3 50 ohms 2,100' - 3,060'

ES-7 6,210' - 7,500'

ES-5 4,100' - 5,290'

Overlaps

ES-7 20 ohms 490' - 7,500'

Dipmeter

Runs 1 & 2

Lithologic Log

Scale 1:600 surface to 10,128' T.D. includes location plat.

Drilling Report from Feb. 21, 1955 (spud date) to April 19,
1955 (when D & A).

ORIGINAL
SIGNED. [illegible]

AS:cr
3/21/58.

CA 168

CIA. PETROLERA DE COSTA RICA, LTDA.

WEEKLY CHRONOLOGICAL WELL REPORT

District Puerto Viejo

Week Ending 0800 February 28, 1955

Well No Patino #2

Date	Total Depth	Progress	Days in Drilling	Observations
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Feb 22	400'	400'	1	<p>Spudded at 11:00 AM Monday 21 Feb. 1955. Drilled 7 hrs to 180'. Ran Totco at 180'-$\frac{1}{4}$". Drilled at 3-5000# 12$\frac{1}{2}$" hole for 12$\frac{1}{2}$ hrs to 400'. Ran Totco at 338'-$\frac{1}{4}$". Repair pump $\frac{1}{2}$ hr. Now drilling.</p> <p><u>Geology</u>: Apparently spudded in "B" series Gatum & now drilling in "C" series Gatum. Patino #2 spudded approximately 1300' higher in the section than Patino #1.</p>
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Feb 23	987'	587'	2	<p>Drilled 3 hrs to 500'. Ran Totco at 500'-$\frac{1}{4}$". Circ $\frac{1}{2}$ hr to clean hole for core. 1 hr pulled out and went back in with Reed 8$\frac{3}{4}$" core head on conv. barrel. Cored 1 hr 500-515'. Pulled out & rec'd</p>
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Core #1 500'-515' Rec'd 13'6"

13'6" Siltst sandy argill gen mass Dip 17°
 dk gry carb occ shell
 frags fairly hard non calc.

Went back in hole drilled 8 $\frac{1}{2}$ hrs to 828'. Ran Totco at 600'- $\frac{1}{4}$ " & at 725'- $\frac{1}{4}$ ". Drilled 5 $\frac{1}{2}$ hrs with 5-10000 #s to 987'. Ran Totco at 886'- $\frac{1}{4}$ " & at 980'- $\frac{1}{4}$ ". Pulled out of hole 1 $\frac{1}{2}$ hrs picked up core barrel and back in with same. Now circ to clean hole and barrel. Using a natural clay mud mixed with water & gel.

Feb 24	1138'	151'	3	<p>Circ $\frac{1}{2}$ hr to clean core barrel. Cored 1$\frac{1}{2}$ hrs interval 987'-997'. 1$\frac{1}{2}$ hrs pulled out recovered core & went back in hole with 12$\frac{1}{2}$" bit.</p>
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Core #2 987'-997' Rec'd 6'6"

6'6" Shale silty-sandy mass dk Dip 19°
 gry occ fossils v carb

Drilled 5 $\frac{1}{2}$ hrs to 1138'. Circ $\frac{1}{2}$ hr. 1 $\frac{1}{2}$ hrs pulled out of hole and back to bottom. Circ $\frac{1}{2}$ hrs to clean hole for logging. Ran Totco at 1135'- $\frac{1}{4}$ ". Pulled out of hole (1 $\frac{1}{2}$ hrs) to run sandberger. 3 $\frac{1}{2}$ hrs

CIA. PETROLERA DE COSTA RICA, LTDA.

WEEKLY CHRONOLOGICAL WELL REPORT

District Patino #2 Puerto ViejoWeek Ending 0600 Monda y 28 February 1955Well No Patino #2

Date	Total Depth	Progress	Days in Drilling	Observations
Feb 24 (cont)				running Schlumberger "E" log, 20 & 50 ohm resist. 100 millivolt SP. from 1131' to surface. Went in hole with 12 $\frac{1}{2}$ " x 17 $\frac{1}{2}$ " pilot bit to ream 12 $\frac{1}{2}$ " hole to 17 $\frac{1}{2}$ ". Reamed 8 hrs to 202'. Now reaming
Feb 25	1138'	—	4	Reamed 4 hrs to 475'. Circ 1 hr to clean hole 1 $\frac{1}{2}$ hr ran 16 jts 13 3/8" 48# casing to 470' cemented with 375 sax Dyerhof constr. cement. Bumped plug at 7:10 PM Feb 24. Stood cemented 8 hrs. Rigged down casing tools. Spotted B.B.P controls clean cellar & misc const.
Feb 26	1138'	—	5	16 hrs WOC. Welded on Braden head & nipped up BOP and hydril. Building sheds. Rigged up & drilled mouse hole. 1 hr ran in hole with 12 $\frac{1}{2}$ " bit to 468'. Closed hydril & tested "CP at 1500# for 30 minutes. 1 hr displaced mud in hole with water. Now circ and mixing mud.
Feb 27	1138'	—	6	Circ & cond mud 10 hrs. Drilled plug & shoe at 470'. Tried to go to bottom with 12 $\frac{1}{2}$ " bit, would not go. Pulled out & picked up 8 $\frac{1}{2}$ " bit and went to bottom. Displaced old mud in hole with new. Pulled out to build up volume. Reamed 2 hrs to 768', hole caving badly. Circ to condition mud 4 hrs at 768'.
Feb 28	1138' 1217'	— 79'	7	Circ & cond mud 16 hrs. Using Lime-Oil Emulsion mud. Reamed 962'-1138'. Drilled 5 $\frac{1}{2}$ hrs with 4000# to 1217'. Now drilling.

CIA. PETROLERA DE COSTA RICA, LTDA.

WEEKLY CHRONOLOGICAL WELL REPORT

District Pto Viejo Week Ending 0800 Monday 7 March 1955
 Well No Patino #2

Date	Total Depth	Progress	Days in Drilling	Observations
Mar 1	1470'	253'	8	Drilled 7½ hrs to 1321'½. Ran Totco at 1247'-1° Drilled 7½ hrs to 1416'. Ran Totco at 1360'-1½° Drilled 8 hrs to 1470'. Now drilling
Mar 2	1627'	157'	9	Drilled 3½ hrs to 1499'. Circ 1 hr to clean hole Ran totco at 1495'-NG. Pulled out of hole, ran in with core barrel. Washed out bridge at 12' off bottom. Cored 2½ hrs 1499-1509'. Pulled out & recovered Core #3. Went back in with 12½" bit. Reamed 10' fill & core hole. Ran Totco at 1510'-1½°. <div style="margin-left: 400px;"> <u>Core #3</u> <u>1499'-1509'</u> <u>Rec'd 5'0"</u> 5'0" <u>Shale</u> or clayst mass med gry firm v calc occ megafossils occ forams. One 3/4" dike of ss vfg med-bl gry glauc Dip-8-15° on fossil & carbon leaf print alignment </div>
				Drilled 10½ hrs to 1627'. Now drilling
Mar 3	1889'	262'	10	Drilled 7 hrs to 1725. Ran Totco at 1671'-1½° Drilled 15½ hrs to 1889'. Ran totco at 1820'-1° Now drilling
Mar 4	2071'	182'	11	Drilled 7 hrs to 1955' w/7000#. 1½ hrs made trip to change bit. Drilled 6 hrs to 2019'. Ran tot co at 1990'-2°. Spudded thru bridge at 1480'. Drilled 8 hrs to 2071'. Now drilling
Mar 5	2191'	120'	12	Drilled 7½ hrs to 2150½. Ran totco at 2133'-2° Drilled 6 hrs to 2191'. Circ ½ hr to condition hole for "E" log. Ran Totco at 2190'-1½°. 1½ hrs pulled out to log. Tight hole at 1440-1380 Rigged up Schlumberger, went in hole & hit bridge at 1422'. Pulled out & rigged down. 1½ hrs going in hole & ream 10' bridge at 1422-32'. Went on in to 2160' & washed out bridge to 2190' Circ 2½ hrs to cond mud & hole. Now pulling out to run Schulumberger

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WEEKLY CHRONOLOGICAL WELL REPORT

District Pto ViejoWeek Ending 0800 Monday 7 March 1955Well No Patino #2

Date	Total Depth	Progress	Days in Drilling	Observations
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Mar 6 2300' 109' 13

1 hr pulled out of hole & rig Schlumberger.
4 hrs running "E" logs, 10, 20 & 50 ohm scales from 2186' to 470' (run #2). Did not run dip-meter because of damaged equipment.

The "E" log interval 1650-1860' might possibly correlate with the 315-560' interval of Patino #1. This very weak correlation would place #2 1335' above #1 in section which checks very well with the previously estimated 400 m. of section between the two wells

2 hrs going in hole w/core barrel & circ to cond mud. Cored 2 1/2 hrs from 2191-2201'. 1/2 hrs pulled out to recover core. 1 1/2 hrs lay down core barrel & go back in hole w/ bit. Washed 1 hr 15' to bottom & reamed core hole.

Core #4 2181' - 2201' Rec'd 1'0"

1'0" Shale or clayst med-grn gry Dip 6°
v calc abun forams

Drilled 11 hrs to 2300'. Now drilling

Mar 7 2468' 168' 14

Drilled 17 hrs to 2466' w/4000#. Ran totco at 2335'-1 1/2°; 2400'-2° & 2460'-1 1/2°. Circ 1 1/2 hrsto cond hole for core. 2 1/2 hrs pulled out & went back in w/core barrel. Cored 1 hr from 2466-2468'. Now cutting core #5.

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WEEKLY CHRONOLOGICAL WELL REPORT

District Pto ViejoWeek Ending 0800 Monday 14 March 1955Well No Patifio #2

Date	Total Depth	Progress	Days in Drilling	Observations
Mar 8	2677'	209'	15	<p>1½ hrs finished coring w/4000#. Pulled out to recover Core #5.</p> <p><u>Core #5</u> <u>2466'-2481'</u> <u>Rec'd 15'0"</u></p> <p>15'0" <u>Clayst</u> med-grn gry v calc Dip 30° gen fairly soft broken to abun forams rare irreg 35° laminae give attitude</p> <p>1 hr went back in hole w/12½" bit. Reamed core hole 1 hr. Drilled 18½ hrs to 2677'. Ran totco at 2570'-1½". Now drilling</p>
Mar 9	2747'	70'	16	<p>Drilled 2 hrs to 2709' w/5000#. Circ to clean hole prep to core. Ran totco at 2705'-1". Pulled out 5 jts, hole v tight. Circ & worked-up 4 more jts & pipe came free (4½ hrs) 2½ hrs finished pulling out & going back in to clean hole. Circ 1 hr to clean hole. 2 hrs pulled out to pick up core bbl and ran in w/same. Cored 4½ hrs 2709'-2714'. 2½ hrs pulled out & recovered core #6, & went back in hole w/12½" bit. Drilled 3½ hrs to 2747'. Now drilling ahead.</p> <p><u>Core #6</u> <u>2709'-2714'</u> <u>Rec'd 4'0"</u></p> <p>4'0" <u>Shale</u> v calc fairly hard-firm brn gry gen mass w/occ finely laminated abun forams occ red brn carbon occ laminae dk gry shale carbon? Dip 7-9° (fair)</p>
Mar 10	2923'	176'	17	<p>Drilled 2½ hrs to 2923'. Circ 1 hr to clean hole prep to core. Ran totco at 2920'-1". ¾ hr service rig. Now pulling out to core</p>
Mar 11	3055'	132'	18	<p>2½ hrs trip to pick up core barrel. ½ hr circ to clean hole & barrel. Cored 2½ hrs 2922'-2937'. 1½ hrs pulled out to recover core #7.</p> <p><u>Core #7</u> <u>2922'-2937'</u> <u>No recovery</u> washed out pack off ring</p>

CIA. PETROLERA DE COSTA RICA, LTDA.

WEEKLY CHRONOLOGICAL WELL REPORT

District Pto Viejo

Week Ending 0800 Monday 14 Mar 1955 (2)

Well No. Patifio #2

Date	Total Depth	Progress	Days in Drilling	Observations
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Mar 11 (cont)

1½ hrs ago back in hole with 12¼" bit. Reamed & cleaned out 1 hr to bottom core hole. Drilled 13½ hrs to 3055'. Circ 1½ hrs to clean hole prep to run Schlumberger and core. Ran totco at 3050'-½". Now pulling out to run logs

Mar 12 3215' 160' 19

¾ hr finished pulling out of hole. 4½ hrs running Schlumberger "E" log 20 ohm scale 3055' to 2000' & taking sidewall samples (rec'd 1 sample out of 9 shots). ¾ hrs ran inw/core barrel. Circ ½ hr to clean hole. Cored 3 hrs 3055'-3063' 1 hr pulled out to recover core #8

Core #8 3055'-3063' No recovery,
washed out or
pulled off

1½ hrs went back in hole w/core barrel. Circ ½ hr to clean hole. Cored 3½ hrs 3063'-3073'. 1 hr pulled out & recovered core #9.

Core #9 3063'-3073' Rec'd 10'0"
2'0" Clayst occ silty mass firm v calc
med-grn gry abun forams
2'0" Shale occ silty firm finely lam
lt-med-grn gry occ lenses
& laminae dk gry black sh
finely dispersed carbon &
mica abun forams Dip-29°(good)

1½ hrs went in hole w/8¼" bit. Reduced 12¼" hole to 8¼" at 3055'. Drilled 5½ hrs to 3215'. Now drilling ahead

Mar 13 3498' 283' 20'

Drilled 4 hrs to 3286'. Circ 1½ hrs to clean hole. Ran totco at 3280'-¾". 2½ hrs trip to pick up core barrel. Circ ½ hr to clean hole & barrel. Cored 2 hrs 3286'-96'. 1 hr pulled out to recover core #10.

Core #10 3286'-3296' Rec'd 10'0"
10'0" Shale w/occ irreg siltst Dip-22°(g)
lenses v calc med-grn
gry firms occ calcite veins
occ forams & carbon prints

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WEEKLY CHRONOLOGICAL WELL REPORT

District Pto Viejo

Week Ending 0800 Monday 14 March 1955 (3)

Well No Patifo #2

Date	Total Depth	Progress	Days in Drilling	Observations
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Mar 13 (cont)

1 1/2 hrs picked up bit & went back to bottom. Reamed med core hole 1/2 hr. Drilled 9 hrs to 3498'. Circ 1 1/2 hrs to clean hole. Now pulling out to core.

Mar 14 3720' 222' 21

1/2 hr ran totco at 3495' - 2 1/2 hrs pulled out picked up core barrel & go in hole. Cored 2 1/2 hrs 3498-3508'. 1 1/2 hr pulled out to recover core 11

Core #11 3498'-3508' Rec'd 8'0"

8'0" Shale occ silty med gry v calc gen mass w/occ siltst laminae occ dk gry-black thin carbonaceous shale lenses or laminae occ forams & abun calcite veins at irreg angles to bedding. Fr fractures easily. Dip 31° (f)

1 1/2 hr go back in hole w/bit. 1/2 hr reamed core hole. Drilled 5 1/2 hrs to 3710'. Circ 1 hr to clean hole. Ran totco at 3705' - 2 1/2 hrs trip to pick up core barrel. Found tight spot at 3450'. Cored 3 1/2 hrs 3710-3720'. 1 1/2 hrs pulled out to recover core #12

Core #12 3710'-3720' Rec'd 10'

10'0" Shale occ silty laminated occ clayey mass grn-med gry v calc firm-moderately hard occ carbon prints abun forams abun calcite veins Mass part fractures easily. Dip - 27° (f)

Now going in hole to drill ahead

CIA. PETROLERA DE COSTA RICA, LTDA.

WEEKLY CHRONOLOGICAL WELL REPORT

District Pto Viejo

Week Ending 0800 Monday 21 March 1955

Well No Patino #2

Date	Total Depth	Progress	Days in Drilling	Observations
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15 Mar 3932' 212' 22

1/2 hr Service rig. 2 hrs went in hole w/bit reamed 60' to bottom & opened core hole to gauge. 3/4 hr cleaned ball off bit. Drilled 10 1/2 hrs to 3922'. Ran totco at 3920' - 2 1/2 hrs to clean hole prep to core. 2 1/2 hr trip to pick up core barrel. Cored 4 hrs to 3932'. 2 1/2 hrs pulled out to recover Core #13 & go back in hole w/bit. Now going in hole to drill ahead.

Core #13 3922'-3932' Rec'd 3'0"

3'0" Clayst mass occ silty grn gry
v calc fractured abun
forams. Dip 30-45° (poor)

16 Mar 4135' 203' 23

1/2 hr finished going in hole w/8 1/2" bit. Last 7 stands tight. Reamed 2 1/2 hrs 60' to bottom & clean bit. Drilled 5 1/2 hrs to 4012' / 1 hr work on rotary hole. Drilled 5 1/2 hrs to 4132' w/7000#. Circ 2 1/2 hrs to clean hole prep to core. Had to work pipe to keep free. Ran totco at 4130' - 1/4". 2 1/2 hrs pulled out to pick up core barrel & go back in hole. Circ 1/2 hr to clean bit. Cored 2 1/2 hrs from 4132'-4135'. Now cutting core #14

17 Mar 4375' 240' 24

1 1/2 hrs finished cutting core #14. 1 1/2 hrs pulled out to recover core & go back in w/bit

Core #14 4132'-4142' Rec'd 10'

10'0" Claystone mass grn gry v calc abun
calcite veins fractured
slickensides? breaks easily
No attitude possible

Reamed 1/2 hr 30' to bottom & open core hole to gauge. Drilled 8 1/2 hrs to 4284' w/7000#. Spent 1 1/2 hrs working drill pipe. Hole tight on first two connections. Drilled 5 hrs to 4375'. Circ 1 hrs to clean bit after last connection & 2 hrs to clean hole & cond mud to run Schlumberger. Now pulling out to run "B" logs.

CIA. PETROLERA DE COSTA RICA, LTDA.

WEEKLY CHRONOLOGICAL WELL REPORT

District Pto Viejo

Week Ending 0800 Monday 21 March 1955

Well No Patifio #2

Date	Total Depth	Progress	Days in Drilling	Observations
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18 Mar	4375'	—	25	1 hr pulled 15 stands drill pipe. First 9 stnds dragged w/40000#. Ran 9 stnds back in & reamed 7½ hrs from 3925-4375'. Circ 1½ hrs to clean hole. Measured out of hole 2½ hrs to run Schl. 10 hrs running Schlumberger "F" logs dipmeter & sidewall samples
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"F" log— no definite correlation w/Patifio #1 predominate shale section with minor ss & lg intervals with a maximum resistivity of 10 ohms & self potential of 32 millivolts

Sidewall Samples— Recovered 12 in the ss intervals between 4000' - 4353' for correlation purposes w/Patifio #1

Dipmeter— Data sent to Caracas for interpretation

2 hrs rigging down Schlumberger & going in hole with core barrel. Now going in hole to cut Core #15

19 Mar	4426'	51'	26
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½ hr service rig. ½ hr finish going in hole w/ core barrel. Circ ½ hr to clean hole & barrel Cored ½ hrs fro 4375'-4385'. 3 hrs pulled out recovered Core #15 & going back in w/bit.

Core #15 4375'-4385' Rec'd 10'0"

10'0" Clayst grn gry v calc mass w/occ lenses & laminae gillat & ss vfg occ megafossils & carbon accumulations Dip-30°

2'0" Ss vfg-pebbly poorly sorted lt grn-gry subang chert Qtz ign & feldspars occ glauc occ pyrite slightly calc fair porosity no stain cut or fluor

½ hr reamed core hole to gauge 1½ hr circ & comd mud. 3 hrs trip to pick up core barrel. Circ ½ hrs to clean hole & barrel. Cored ½ hrs to 4400'. 3 hrs pulled out to recover core #16 & go back in with bit

CIA. PETROLERA DE COSTA RICA, LTDA.

WEEKLY CHRONOLOGICAL WELL REPORT

District Pto Viejo Week Ending 0800 Monday 21 March 1955Well No Ratño #2

Date	Total Depth	Progress	Days in Drilling	Observations
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19 Mar(cont)

Core #16 4385'-4400' Rec'd 15'0"

1'0" Ss vfg-pebbly similar to base Core 15

4'0" Shale med grn gry v calc carb forams
occ lenses siltst & ss dike
Dip 39°0'4" Ss fg vfg poorly sorted lt bl gry ss
abun glauc poor porosity no sta
cut or fluorescence9'6" Shale grn gry mass firm v calc occ
lenses sandy & silty occ shells
carbon & forams. Dip 40°(g)Reamed core hole to gauge. Drilled 2½ hrs to
4426'. Now drilling

20 Mar 4800' 374' 27

½ hr service rig. Drilled 1¼ hrs to 4698' w/
6000#. 1 hr tried totco, would not go down
below 3000'. ½ hr cleaning balled bit. Drilled
5 hrs to 4800'. Circ 1 hr to clean hole & drop
totco 4800'-1°. ~~Reamed 2 hrs~~ 2 hrs pulled
out, picked up core barrel, now going in hole
with same.

21 Mar 5000' 200' 28

½ hr service rig, ½ hr finish going in hole w/
core barrel. Cored 3 hrs to 4810'. 4 hrs pulled
out recovered core & went back in w/bit.

Core #17 4800'-4810' Rec'd 10'0"

10'0" Clayst grn med gry mass soft occ
firmer very plastic occ
forams. No attitude possible1 hr reamed 4770'-4800' & opening core hole to
gauge. Circ ½ hr to clean bit. Drilled 8½ hrs
to 5000'. Spent 1½ hrs circulating to clean bit
on connections. Now drilling ahead

CIA. PETROLERA DE COSTA RICA, LTDA.

WEEKLY CHRONOLOGICAL WELL REPORT

District Pto ViejoWeek Ending 0800 Monday March 28 1955Well No Patiño #2

Date	Total Depth	Progress	Days in Drilling	Observations
22 Mar	5285'	285'	29	<p>½ hr service rig. Drilled 7½ hrs to 5133'. Circ 3½ hrs to clean hole & cond mud. Drilled 3½ hrs w/4000# to 5194'. Spent 1½ hrs circ & cleaning bit on connections. Drilled 4½ hrs to 5285'. Circ 1 hr to clean hole prep to core. Ran totco at 5280'-1½" 2 hrs pulled out to pick up core barrel & start back with same. Now going in hole to core.</p>
23 Mar	5285'	—	30	<p>2½ hrs repair compound chain & adjust high clutch linkage. ½ hr service rig. Went in hole w/core barrel to 4850. Found bridge. Pulled out layed down core barrel & went in hole w/8" bit to ream (5hrs). Circ 1½ hrs at 4638' to cond mud. Reamed 12½ hrs 4638'-5285'. Circ 1½ hrs to cond mud. Now cond mud</p>
24 Mar	5345'	60'	31	<p>Circ to cond mud 6½ hrs. 1½ hrs pulled out to run logs. 4½ hrs rig up & run Schlumberger logs, (20 ohm scale). Shale section w/minor resistive & porous streaks, no good correlation w/Patiño #1. 1½ hrs went in hole w/core barrel. Cored 3½ hrs 5285'-5345'. 2½ hrs pulled out to recover core & go back in hole with bit.</p> <p><u>Core #18</u> <u>5285'-5345'</u> <u>Rec'd 13:15</u></p> <p>11'0" <u>Shale</u> firm med gry v calc finely carb abun calcite veins stn on fracture planes gives dull fluorescence but does not cut w/GCL4. Dip 32°(f)</p> <p>2'0" <u>Lg dolomitic tan gry hrd crypto-x'line</u> shattered</p> <p>Reamed core hole to gauge. Drilled 3½ hrs @ 5345'. Now circ to cond mud</p>
25 Mar	5530'	175'	32	<p>Circ 13½ hrs to cond mud. Drilled 10½ hrs to 5530'. Now drilling ahead</p>

CIA. PETROLERA DE COSTA RICA, LTDA.

WEEKLY CHRONOLOGICAL WELL REPORT

District Pto Viejo

Week Ending 0800 Monday 28 March 1955

Well No Patiño #2

Date	Total Depth	Progress	Days in Drilling	Observations
26 Mar	5798'	268'	33	1 hr serv rig. Drilled 20 1/2 hrs to 5798'. Circ 1/2 hr prep to core. 1 hr pulled out 10 stnds & go back in hole. Reamed 1 1/2 hrs back to bottom. Rotary hose blew out. Now replacing rotary hose
27 Mar	5809'	11'	34	2 hrs replacing rotary hose & serv rig. 1 hr pulled out 10 stnds & went back to bridge at 5400'. Reamed 10 1/2 hrs 5400-5798'. Circ 1 hr to cond hole for core. Ran Totco at 5795'-2 1/2". 3 1/2 hrs round trip to pick up core barrel. Circ 1/2 hr to clean hole & bit. Cored 4 hrs 5798'-5809'. Now pulling out to recover core.
28 Mar	5990'	181'	35	3 hrs finished pulling out with core, recovered core, pick up 8 1/2" bit & go in hole with same.

Core #19 5798'-5809' Ream'd 11'0"

10'6" Shale & clayst gen mass occ laminae
v calc grn-med gry gen v
shattered appear occ stain on
fracture plane gives dull pal
fluorescence no cut Dip-22-34°
0'6" Lg med gry microx'line hard

Reamed 1/2 hr core hole to gauge. Drilled 12 hrs to 5919'. Ran totco at 5910'-2 1/2". Drilled 7 hrs to 5990'. Now drilling ahead.

CIA. PETROLERA DE COSTA RICA, LTDA.

WEEKLY CHRONOLOGICAL WELL REPORT

District Pto. Viejo

Week Ending 0800 Monday April 4, 1955

Well No. Patiaño #2

Date	Total Depth	Progress	Days in Drilling	Observations
29 Mar.	6179	189'	36	16½ hrs. drilling 1 hr. TOTCO at 6020' - 2½° ½ hr. TOTCO at 6110' - 2° 2½ hrs. pulling out w. D.Cs. changed bits, ran D.Cs. & 2 stands, slipped line 30 1 hr. circ. to cond. heav. visc. mud & cle clean bit.
30 Mar.	6311	132'	37	13 hrs. drilling ½ hr. serv. rig, 1½ hrs. to unball bit & cond. hole TOTCO at 6305' - 1½° 2 hrs. pulling out of hole ½ hr. rig Schlumberger 6½ hr. run "
31 Mar.	6372	61'	38	1 hr. run Schlum. 15 hrs. waiting on wt. material 1 hr. ran in hole to 3200' 1 hr. cir. & turn mud over ½ hr. finish in hole, wash 30' to bottom (free) 1½ hrs. circ. and cond. mud 4 hrs. drilling
1 Apr.	6637'	265'	39	22 hrs. drilling ½ hr. serv. rig 1½ hrs. pulling up 10 stds., going back to bottom and cleaning bit.
2 Apr.	6886	249'	39	19½ hrs. drilling ½ hr. TOTCO at 6880' - 1° 3½ hrs. trip for new bit ½ hr. circ.
3 Apr.	7311	425'	40	22 hrs. drilling ½ hr. circ. 1½ hrs. pulled up 15 stds.
4 Apr.	7492	181'	41	1½ hrs. serv. rig, finish going in hole 7 hrs. drilling 3½ hrs. circ. to cond. mud and clean hole for E log. 2½ hrs. pulling out of hole 1½ hrs. rig up and run E log (did not get to bottom) 5 hrs. wait. on mud material 3 hrs. going in hole with 65 stds.

CIA. PETROLERA DE COSTA RICA, LTDA.

WEEKLY CHRONOLOGICAL WELL REPORT

District Pto. ViejoWeek Ending 0800 Monday April 11, 1955Well No Patifio #2

Date	Total Depth	Progress	Days in Drilling	Observations
5 April	7502'	10'	42	<p> $\frac{1}{2}$ hr. going in hole w. core barrel 3 hr. cut Core #20 7492-7502 4' Rec. 1$\frac{1}{2}$ hr. pulling out of hole 2$\frac{1}{2}$ hr. "E" log 4$\frac{1}{2}$ hr. "E" log 11$\frac{1}{2}$ hr waiting on mud material cut 100' off drilling line </p>
6 April	7957	455'	43	<p> 1 hr. serv. rig and repair compound chain 2 hr. going in hole with bit 1 hr reaming core hole 1$\frac{1}{2}$ hr TOTCO at 7590' - 3° 1$\frac{1}{2}$ hr working on pump $\frac{1}{2}$ hr. repair rotary clutch 16$\frac{1}{2}$ hr. drilling </p>
7 April	8258	301'	44	<p> 11 hr. drilling $\frac{1}{2}$ hr repair torque indicator $\frac{1}{2}$ hr. repair geolograph 2$\frac{1}{2}$ hr. circ. to cond. mud. 1$\frac{1}{2}$ hr pulled 18 stds. d.p. all tight 5 hr. trip out w. 72 stds. and back w. new bit hole tight for 20 stds. off bottom and took weight on same 20. 3 hr. reaming to bottom, on bottom at 3:00 am. </p>
8 April	8301	43'	45	<p> 5$\frac{1}{2}$ hr. drilling 1 hr. circ. and TOTCO at 8260' - 6° 5 hr. pull out and go in hole with core barrel $\frac{1}{2}$ hr. circ. and drop ball 4$\frac{1}{2}$ hr. coring Core #21 2' Rec. (8265-8272) 3 hr. pulled out and laid down core barrel broke pipe on single 2$\frac{1}{2}$ hr. extract core and run in hole with bit $\frac{1}{2}$ hr. ream core hole 1$\frac{1}{2}$ hr. circ. to clean bit </p>

CIA. PETROLERA DE COSTA RICA, LTDA.

WEEKLY CHRONOLOGICAL WELL REPORT

District Pto. ViejoWeek Ending 0800 Monday April 11, 1955Well No Patiño #2

Date	Total Depth	Progress	Days in Drilling	Observations
9 April	8676	375'	46	23 hrs. drilling 1 hr. repair compound chain oilers and pumps
10 April	8980	304'	47	1 hr. circ. $\frac{1}{2}$ hr. TOTCO at 8670 - 3 $\frac{1}{2}$ ' 4 hrs. pull out, change bits and go in hole $1\frac{1}{2}$ hrs. repair yoke on rotary clutch and rotary chain 17 hrs. drilling
11 April	9125	145'	48	7 hrs. drilling 1 hr. circ. to clean hole $\frac{1}{2}$ hr. TOTCO at 9120 - 2 $\frac{1}{2}$ ' $2\frac{1}{2}$ hrs. pulling out of hole 9 hr. "E" log Broke pipe on double $\frac{1}{2}$ hr. rigging down Schlumberger $3\frac{1}{2}$ hrs. waiting on mud material

WEEKLY WELL REPORT

District Pto. Viejo

Week Ending 0600 Monday April 18, 1955

Well No. Patiño #2

Date	Total Depth	Progress	Days in Drilling	Observations
12 April	9125	0	49	24 hrs. waiting on mud material
13 April	9125	0	50	24 hrs. waiting on mud material
14 April	9125	0	51	16 hrs. waiting on mud material 8 hrs. trip in hole
15 April	9480	355'	52	18 hrs. drilling ran 7stds. & circ. $\frac{1}{2}$ hr. Broke circ. in 3 std. intervals to bottom 1 hr. Clean out 4' fill, clean bit, circ. to cond. mud 2 hrs.
16 April	9613	133'	53	6 $\frac{1}{2}$ hrs. drilling $\frac{1}{2}$ hr. rig service 1 $\frac{1}{2}$ hr. cleaning bit $\frac{1}{2}$ hr. brakes (block came out) 1 hr. circ. $\frac{1}{2}$ hr. TOTCO at 9605' - 6° 2 $\frac{1}{2}$ hr. pull out of hole 1 hr. changed blocks on brake - driller side 1 hr. cutting off drilling line 2 hr. repair rig 6 hr. trip in hole
17 April	9947	334'	54	2 hrs. clean out 30' to bottom & clean bit $\frac{1}{2}$ hr. service rig 2 $\frac{1}{2}$ hrs. drilling
18 April	10128'	181'	54	11 hrs. drilling 2 hr. circ. to cond. mud for "E" log 3 hrs. TOTCO at 10125' - 4 $\frac{1}{2}$ ° & pull out of hole 1 $\frac{1}{2}$ hr. finish trip out 3 $\frac{1}{2}$ hr. Schlumberger attempted "E" log - did not reach bottom - stopped at 5810' 1 $\frac{1}{2}$ hrs. trip in with core barrel - hole bridged at 6350' - would not go. 1 $\frac{1}{2}$ hrs. circ.

CIA. PETROLERA DE COSTA RICA LTDA.

WEEKLY CHRONOLOGICAL WELL REPORT

District Pto. ViejoWeek Ending 0800 Monday April 25, 1955Well No. Patiño #2

Date	Total Depth	Progress	Days in Drilling	Observations
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April 19	10128'	0	55	5 hrs. trip 3hrs. reaming bridge at 6697-6732 2½ hrs. go in hole to 8770 and circ. ran 5 stds. to 9220 and circ. 1 hr. ran 5 more stds. to 9658 and circ. and try to ream for 2½ hrs. 2 hrs. circ. at 9658 to cond. hole for log pulled out and attempted log. Log cable would not go deeper than 8050' Pulled out, abandoned hole, and laid down pipe.
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