

## LEAK DETECTION

TEMP

PSZ

<del>D</del> <sup>0</sup> 20	970224	167.5	298.9
<del>D</del> <sup>0</sup> 50	970298	167.3	299.0
<del>D</del> <sup>1</sup> 20	970372	167.3	289.8
<del>A</del> <sup>1</sup> 50	970436 444457	166.7	295.4
0220	442529	166.3	296.0
0250			
0320			

REDACTED PII

leak detection

7:37 called

REDACTED PII

8:00 ~~start~~ arrived at Beta station

8:15 started back on shipping

8:30 shut back down

10:55pm started back on

11:30 ~~start~~ shut down shipping

12:15 started back manual leak detection

REDACTED PII

1:30AM arrived on site 1:30AM

2:30AM shut down shipping, suspected Meter issue

2:32 ship service was called

REDACTED PII

2:34 requested a boat run.

5:05 start shipping to check meter

6:01 shut down shipping and <sup>waiting</sup> boat run

8:00 ship services making manual leak detection run

3:30 social ship services sent boat out for manual leak detection

REDACTED PII

leak detection

7:37 called

REDACTED PII

8:00 ~~started~~ arrived at Peter station

8:15 started back on shipping

8:30 shut back down

10:55pm started back on

11:30 ~~started~~ shut down shipping

12:15 started back manual leak detection

REDACTED PII

1:30AM arrived on site 1:30AM

2:30AM shut down shipping, suspected Meter issue

2:37 ship service was called

REDACTED PII

2:34 requested a boat run.

5:05 start shipping to check meter

6:01 shut down shipping and <sup>waiting</sup> boat run

7:00 ship services making manual leak detection

3:30 soeal ship services sent boat out for manual leak detection

10:49 NICHOLAS L. ON SITE! CATCH CAN  
10:50 REDACTED PII CALLED. INFORMED OF TIMELINE OVERNIGHT

11:30 BOB B. (BSEE) CALLING FOR BOAT RUN  
SAL GARCIA CALIFORNIA OSCAR (WILDLIFE)

11:45  
11:48 SAL GARCIA CALLED (WILDLIFE) NEED 5 SAMPLES

11:50 TARESA BELL BSEE CALLED FOR STATUS  
11:55 EDITH Ops  
11:56 (COAST GUARD) NEEDS RESPONSE PLAN PET. OFFICER MANSKE  
SENT TO REDACTED PII

12:17 HAND OVER SAMPLES TO SAL GARCIA  
(12:20) WILDLIFE & FISH & GAME

12:30 ANDY BSEE SHOWED UP / REDACTED PII IS CATCHING  
BOAT @ SCSS TO COME OUT

13:15 REDACTED PII & REDACTED PII ON NICHOLAS L  
OUT TO PLATFORM

PIPELINE RUN

LAT: 33°38.976N  
LON: 118°06.540W

08:18

POSSIBLE OIL LEAK FROM 16" PIPELINE

08:21 CALLED EDITH

08:23 POSSIBLE 60 FEET WIDE 2.5 MILES

08:30 ~~EDITH~~ CALLED O'BRIAN GROUP

08:34 ~~EDITH~~ EDITH CALLED / SHIPPING PUMPS OFF

08:35 SCSS REDACTED PII NOTIFIED POSSIBLE LEAK

8:36 MSRC NOTIFIED 16" PIPELINE LEAK (TAMBAU)

8:48 Nicholas L spill 60 ft x 1 1/2 miles long

8:52 SCSS REDACTED PII CALLED BACK, INFO

8:45 CALLED REDACTED PII EMAILED PIPELINE I.D.#

8:57 called BSEE Talked to REDACTED PII

9:03 Notified REDACTED PII with MSRC command center located at long beach office 111 W. Ocean BLVD Suite 1240 Long beach 90802

9:07 Ship Services REDACTED PII Ship guardian is going to be on site first, we will be notified when on site

9:00 Eureka and ELLEN Platform Both down

9:33 REDACTED PII REDACTED PII CELL

RESPONSE MANAGER.

REDACTED PII → REDACTED PII SUPERVISOR HEADING TO COMM CENTER

OCEAN GUARDIAN RESPONDING > BOATS

OCEAN DEFENDER RESPONDING

9:40 REDACTED PII CAL RESOURCES / OIL PROPERTIES

9:48 REDACTED PII CALLED NOTIFIED

9:54 CALLED SCSS NICHOLA L. ON SITE / OCEAN GUARDIAN ON ROUTE

3130 UNIDENTIFIED 743 014 31117  
WOPS 00 311 1104

CONT:

10:02 RECON #3 RECON #4 IN ROUSE  
~~10:02~~ REDACTED PII STARTING SHIPPING TO RELIEVE  
PRESSURE FROM PIPELINE

10:07 REDACTED PII SENT TO REDACTED PII  
FROM PIPELINE INCIDENT

10:11 REDACTED PII 9 MIL TO END OF ~~SEA~~ SHEEN  
ON RADIO & CALLED REDACTED PII  
9 MIL THINS OUT  
1500 FEET WIDE

LAT: 33° 31.416N  
LON: 118° 00.233 W

10:25 CALLED NICHOLAS L. NOTIFIED ITS MAJORITY IS SHEEN BUT  
OFFICER ~~STEW~~ STEW SPOTTY OIL  
10:25 USCG CALLED

10:35 NICHOLAS L. ON STAND BY

4:10 pm SHUTDOWN 15 min TO RESET LEAK DETECTION  
 4:35 pm BACK ON SHIPPING. STILL SHOW LEAK DET.

1:59 Comm FAIL  
 2:10 SO20 TANK LEVEL EX. 85%.  
 3:25 Comm FAIL  
 3:35 Comm FAIL  
 4:10 LEAK DETECTION  
 4:22 LEAK DETECTED - ATMOS  
 4:34 LEAK DETECTION

10-1 08:13 SHIPPING OFF FOR PIG  
 08:31 SHIPPING IN PIG LAUNCH  
 17:11 SHIPPING OFF  
 17:41 SHIPPING BACK ON RESET LEAK  
 17:53 SHIPPING BACK OFF  
 19:03 SHIPPING BACK ON  
 19:42 SHIPPING BACK OFF  
 20:29 SHIPPING BACK ON  
 20:43 SHIPPING BACK OFF  
 23:16 SHIPPING BACK ON  
 10-2 01:47 SHIPPING ~~BOBS~~ ~~OR~~ SWITCHED TO B PAN ON THE FLY

} PAM A

21:12 SHIPPING PUMP ON THROUGH PAM B  
21:24 SHIPPING PUMP OFF  
21:44 SHIPPING PUMP ON  
22:34 SHIPPING PUMP OFF  
23:15 SHIPPING PUMP ON THROUGH PAM A  
1:45 SWITCHED PAM UNITS FROM A TO B  
2:27 SHIPPING OFF  
5:11 PAM B SHIPPING ON  
6:04 AM SHIPPING OFF



9:54 Michalak on site

ocean <sup>gardier</sup> in cart

recon 3 in cart

recon 4 in cart

\* OCEAN DEFENDER \*

- 0906 TEXTED ALL DEPARTMENT AGENCIES (REDACTED PII)
- 0907 FORWARDED TO AGENCY FOR FIRST AVAIL. DISPATCH
- 0908 OCEAN GUARDIAN FIRST DISPATCHED TO SCENE (SCSS)
- 0920 REDACTED PII CELL PHONE (WHEN FIRST SHIPPED?)
- 0930 REDACTED PII FOR TIME LINE.
- 0935 MSRC REDACTED PII (RESPONDING MANAGER)  
REDACTED PII (RESPONDING SUPERVISOR)
- 0938 K-01 DOWN, SHUT DOWN K02A
- 0942 REDACTED PII - LIBER -
- 0949 EDITH REQUEST SDV SHUT DOWN
- 0950 BSEE BRUCE EVANS
- 1024 REDACTED PII # FOR UPDATE SPILL SIZE & LOCATION
- 1024 COAST GUARD PO STEW
- 1030 EDITH REQUEST PIPE LINE PRESSURE (EVERY 2 HOURS) @ PSI
- 1032 NICHOLAS L. REQUEST <sup>NEXT</sup> INSTRUCTIONS
- 1051 NICHOLAS L. ELLEN CAN
- 1053 REDACTED PII TIME LINE

1:17 James foto (fish & WILDLIFE) CALLED DIRECTED TO COMMAND CENTER

13:20 REDACTED PII SENDING OVER PROCEDURE FOR PIPELINE BFL CLEAN OUT

13:24 REDACTED PII IS GOING TO SWING BY FROM INCIDENT (OIL LEAK)

14:17 REDACTED PII CALLED ASKING ABOUT THE ATMOS PEOPLE, IF REDACTED PII GOT A HOLD OF THEM

14:29 REDACTED PII CALLED TO VERIFY PROPER PROCEDURE OF PIGGING

15:16 REDACTED PII CALLED FOR UPDATE

15:52 REDACTED PII CALLED L.B. OFFICE TO CUT POWER

16:11 ~~for~~ for 12 HRS.

REDACTED PII CALLED TO SEE UPDATE ON PIG RUN

NOTE: REPORT WHAT TIME FIRST LEAK DETECTION WAS NOTED PER REPORT FOR TIMELINE OF

9:04 COMPLETED CONTACTED ALL PARTIES

~~9:05 CALL~~ TO ASK

9:06 CALLED IF BOAT HAS BEEN  
DISPATCHED (OCEAN ~~GARDEN~~)  
1. GUARDIAN  
2. DEFENDER

9:11 ALL INJECTION DOWN

9:23 REDACTED PII CALLED REDACTED PII TO  
GET TIMELINE YESTERDAY

9:28 REDACTED PII CALLED BACK

9:32 ~~CALL~~ CALL WITH REDACTED PII ENDED

9:33 MSRC CALLED

REDACTED PII

RESPONSE MANAGER

REDACTED PII

↳ SUPERVISOR

9:36 REDACTED PII CALLED REDACTED PII TO GET  
TIMELINE

9:40 CALL FROM REDACTED PII

REDACTED PII ENERGY RESOURCES

9:45 CALL WITH REDACTED PII ENDED

9:48 REDACTED PII CALLED (BSEE)

9:52 REDACTED PII CALLED S.S.

10:25

10:29 SOMEONE FROM EDITH  
CALLED ASKING FOR  
PIPELINE PRESSURE

10:32 ELLY OPERATOR VERIFIED PIPELINE  
PRESSURE TO BE ZERO PSI

10:35 CALL FROM NICHOLAS L.

10:50 CALL FROM

REDACTED PII

# BETA OFFSHORE

Control room phone # REDACTED PII  
REDACTED PII

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## LEAK DETECTION

### FRIDAY OCT 1

Long Beach 16" pipeline incident timeline 10/01/20221

- 1600: Leak Detection System (LDS) alarm activated following major high water upset at Elly Plant in wake of receiving 3-pig train with chemical pill from Eureka in the 10" bulk line; assume alarm is erroneous and activated due to upset conditions in the line from shipping wet and low to no plant residence time; reset LDS, resume shipping.
- 1711: LDS alarm. Stop shipping. Run checks. Reset LDS.
- 1741: Resume shipping.
- 1753: shipping back off to reset leak detection.
- 1903: Shipping back on.
- 1915: Control Room called PIC. Notified PIC about situation to call out Beta station employee.
- 1937: Called REDACTED PII to head to Beta Station begin manual LDS monitoring.
- 1942: Shipping was shut back down.
- 1943: REDACTED P was called by REDACTED to inform he was going to Beta station.
- 2000: REDACTED PII arrives at Beta Station, begin manual LDS.
- 2029: Resume shipping.
- 2043: LDS alarm. Stop shipping. Reset LDS.
- 2055: Switched over to PAM B.
- 2112: Started shipping pumps through PAM B.
- 2124: Stopped shipping.
- 2144: started shipping
- 2234: Stopped shipping, switch to PAM A.
- 2315: started shipping through PAM A.

### SATURADAY OCT 2

- 0015: Manual Leak Detection, resume shipping.
  - 0130: REDACTED PII arrives at Beta Station.
  - 0146: Switched PAM from A to B while shipping.
  - 0228: Stop shipping.
  - 0234: Call SoCal Ship Services to perform line ride.
  - 0330: Line ride performed did not find leak.
  - 0511: Resume shipping to perform meter check.
  - 0601: Stop shipping, call for additional line ride and wait for results.
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- 0630: Loaded 16" pig per pipeline to run second pig.
- 0701: Second line ride was performed.
- 0808: Contacted Nicholas L.
- 0809: Confirmed oil in water by Nicholas L.
- 0810: Contacted company VP of oil in water findings.
- 0811: Mobilized crew and initiated spill response.
- 0821: Called platform Edith and notified them of Leak in pipeline and to shut down production.
- 0823: Possible 60FT wide and oil sheen actual size of length was not undetermined.
- 0830: Called O'Brian group and initiated spill response.
- 0834: Edith called shipping pumps are off.
- 0835: Contacted SCSS and notified of possible leak in 16" pipeline to shore.
- 0836: MSRC was notified of 16" pipeline to shore leak.
- 0845: Called REDACTED PII emailed pipeline I.D.#.
- 0848: Nicholas L reported 60ft Wide x 1 ½ mile length.
- 0852: SCSS dispatch called and notified us they were mobilizing a recon team.
- 0857: Called BSEE and notified them of the 16" pipeline to shore leak.
- 0900: Eureka platform production is down.
- 0903: Notified MSRC command center location 111 W Ocean Blvd suite 1240 Long Beach 90802.
- 0907: SCSS notified us the Guardian is going to be on site first. We will be notified when Guardian is on spill site.
- 0933: Response Manager REDACTED PII Cell.  
Supervisor REDACTED PII is heading to command center.  
Ocean Guardian and Ocean Defender responding to spill site.
- 0940: William Stevenson from Cal resources/oil properties called and was directed to command center.
- 0948: REDACTED PII called and was notified about incident.
- 0954: Called SCSS. Was notified Nicholas L. was on site and Ocean Guardian, Recon #3 and Recon #4 were in route.
- 1002: Beta Pump Station started pump to relieve pressure on Pipeline.
- 1007: REDACTED PII directed to Command center for pipeline incident.
- 1011: Control Room was notified by radio that sheen is 9 miles out.
- 1011: REDACTED PII from Aqueos called.
- 1025: Called Nicholas L. and was notified that it was mostly sheen and spotty oil.
- 1025: USCG called Officer Stew.
- 1025: Vessel Nicholas L. on stand by.

Long Beach Incident 02 10 2021

Platform Elly shipping operations time line from REDACTED PII CRO and REDACTED PII PIC and others

Friday Oct 1

Hours

1600: Leak Detection System (LDS) alarm activated following major high water upset at Elly Plant in wake of receiving 3-pig train with chemical pill from Eureka in the 10" bulk line; assume alarm is erroneous and activated due to upset conditions in the line from shipping wet and low to no plant residence time; reset LDS, resume shipping

1715: LDS alarm. Stop shipping. Run checks. Reset LDS

1735: Resume shipping

1737: Call REDACTED PII to head to Beta Station begin manual LDS monitoring

1800: LDS alarm. Stop shipping.

2000: REDACTED PII arrives at Station, begin manual LDS

2015: Resume shipping

2030: LDS alarm. Stop shipping. Reset LDS

2055: Resume shipping

2330: LDS alarm. Stop shipping.

Saturday Oct 2

0015: Manual Leak Detection, resume shipping

0130: REDACTED PII arrives at Beta Station

0230: Stop shipping

0234: Call SoCal Ship Services to perform line ride

0330: Line ride performed

0505: Resume shipping to perform meter check

0601: Stop shipping, call for additional line ride and wait for results



BETA OFFSHORE  
 PLATFORM ELLY

Daily Report

Date : 01/10/21 Time : 07:00:00 Computer ID: Rev:20.74.30-F108

Meter ID Number	PAM A	PAM B	LD METER
Product Number	1	1	1
Product ID	CRUDE	CRUDE	CRUDE
API Table Selected	Table A	Table A	Table A
Day Start Date	30/09/21	30/09/21	30/09/21
Day Start Time	07:00:00	07:00:00	07:00:00
Day End Date	01/10/21	01/10/21	01/10/21
Day End Time	07:00:00	07:00:00	07:00:00

Daily G(IV) BBL	4974.397	.000	.000
Daily N(GSV) BBL	4734.463	.000	.000
Daily Mass KLB	0	0	0

Opening G(IV) BBL	53254.687	478370.087	.000
Opening N(GSV) BBL	421173.003	156064.900	.000
Opening Mass KLB	0	0	0

Closing G(IV) BBL	58229.084	478370.087	.000
Closing N(GSV) BBL	425900.266	156064.900	.000
Closing Mass KLB	0	0	0

Daily Flow Weighted Averages :

Temperature Deg.F	192.6	.0	.0
Pressure PSIG	486.4	.0	.0
Flowing Den GM/CC	.0000	.0000	.0000
Density T Deg.F	192.6	.0	.0
Density Pres PSIG	486.4	.0	.0
Flowing Sp. Gr.	.0000	.0000	.0000
Sp. Gr. @60 Deg.F	.9626	.0000	.0000
API @ 60 Deg.F	15.5	.0	.0
VCF	.9504	.0000	.0000
CPL	1.0026	.0000	.0000
Meter Factor	.9988	.0000	.0000
K Factor	8400.0	.0	.0

MF UsedInNet (GSV)	YES	YES	YES
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\*\*Indicate a "Totalizer Rollover"

BETA OFFSHORE  
 PLATFORM ELLY

Daily Report

Date : 02/10/21 Time : 07:00:00 Computer ID: Rev:20.74.30-F108

Meter ID Number	PAM A	PAM B	LD METER
Product Number	1	1	1
Product ID	CRUDE	CRUDE	CRUDE
API Table Selected	Table A	Table A	Table A
Day Start Date	01/10/21	01/10/21	01/10/21
Day Start Time	07:00:00	07:00:00	07:00:00
Day End Date	02/10/21	02/10/21	02/10/21
Day End Time	07:00:00	07:00:00	07:00:00

Daily G(IV) BBL	3518.268	618.528	.000
Daily N(GSV) BBL	3361.150	597.804	.000
Daily Mass KLB	0	0	0

Opening G(IV) BBL	58229.084	478370.087	.000
Opening N(GSV) BBL	425908.266	156064.900	.000
Opening Mass KLB	0	0	0

Closing G(IV) BBL	61747.352	478988.615	.000
Closing N(GSV) BBL	429269.416	156662.704	.000
Closing Mass KLB	0	0	0

Daily Flow Weighted Averages :

Temperature Deg.F	184.1	155.1	.0
Pressure PSIG	563.4	445.9	.0
Flowing Den GM/CC	.0000	.0000	.0000
Density T Deg.F	184.1	155.1	.0
Density Pres PSIG	563.4	445.9	.0
Flowing Sp. Gr.	.0000	.0000	.0000
Sp. Gr. @60 Deg.F	.9626	.9626	.0000
API @ 60 Deg.F	15.5	15.5	.0
VCF	.9537	.9646	.0000
CPL	1.0030	1.0022	.0000
Meter Factor	.9988	.9998	.0000
K Factor	8400.0	8400.0	.0

MF UsedInNet (GSV)	YES	YES	YES
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\*\*Indicate a "Totalizer Rollover"