

PPC 24-inch Line CA-324, 30-inch Line CA-325A and 30-inch Line CA-325B

Fill Plan and Start Up Procedures

Overall Project Description:

The following is a fill plan and start up procedure to reintroduce crude oil into CA-324, CA-325A and CA-325B. The lines will be filled from Las Flores Station to Gaviota, Gaviota to Sisquoc then Sisquoc to Pentland as crude oil is available. The line fill from Las Flores Station to Gaviota is approximately barrels, line fill from Gaviota to Sisquoc is approximately barrels and the line fill from Sisquoc to Pentland is approximately barrels for a total line fill of barrels. Once all precheck operations are complete, a daylight restart will occur with advance communications with local emergency response officials in accordance with Appendix D(1)(b)(4) and Appendix D(1)(f)(3) of the Consent Decree.

CA-324 is currently filled with nitrogen in which the pressure is approximately psig of air pressure on it and CA-325B has approximately of treated water in the line as well as five pigs.

During CA-325B line fill, the air pressure will be monitored at the high point as well as at Pentland to ensure it does not exceed the Maximum Operating Pressure (MOP) of the system.

Station	Max Discharge	DS Segment	MOP @ Low Point
LFC		324 (LFC to Gaviota)	
Gaviota		325A (Gaviota to Sisquoc)	
Sisquoc		325B Sisquoc to Pentland)	

Table 1 – MOP of Line Segment and Max Discharge Pressure at Stations (Note: Hydrotest Records set MOP of Line)

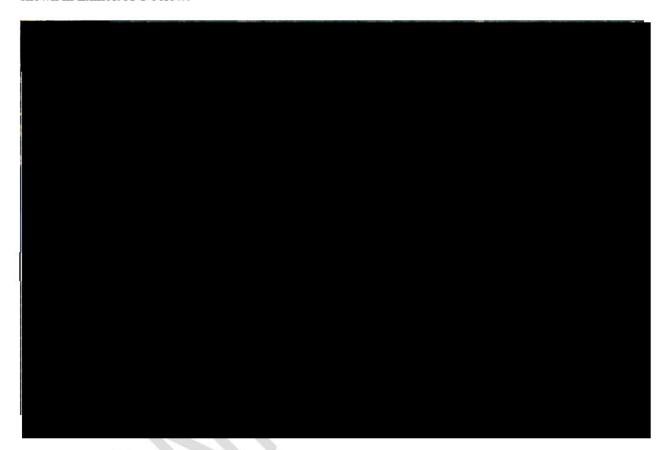
CA-324 Specifics:

Length from the Las Flores Station pig launcher to Gaviota Station is approximately	
with a line volume of approximately . The line segment from Las Flores St	ation to Gaviota
consists of 24 inch outside diameter pipe with wall thickness of primarily	inches. The
normal flow rate out of Las Flores Station will be	
with a Maximum Operating Pressure (MOP) of psig. Elevations of the various sites	
Las Flores Station - , High point between Las Flores and Gaviota -	at station
Low point between Las Flores and Gaviota at station and Gaviota Sta	tion –
. The maximum pressure leaving Las Flores Station is	



Project Location:

The initial line fill will start at the Las Flores Pump Station pig launcher and end at Gaviota Station as shown in Exhibit A-1 below:









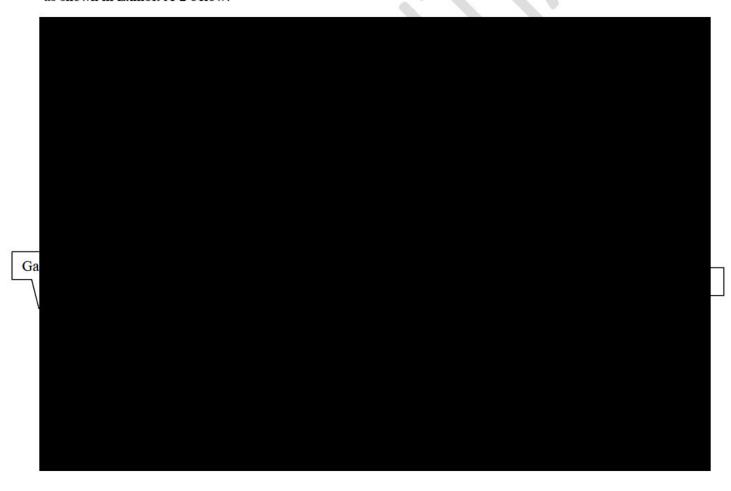


CA-325A Specifics:

Length from the Gaviota Station pig launcher to Sisquoc S	tation is approximately	
The	e line segment from Gaviota	Station to Sisquoc
consists of 30 inch outside diameter pipe with wall thickness	of	. The normal
flow rate out of Gaviota Station will be		at
the low point of the line. Elevations of the various sites along	g this segment are as follow	s: Gaviota Station
- High point between Gaviota and Sisquoc -	at station 1	, Low point
between Gaviota and Sisquoc is	and Sisquoc Station -	The
maximum pressure leaving		

Project Location:

The line fill for this segment will start at the Gaviota Pump Station pig launcher and end at Sisquoc Station as shown in Exhibit A-2 below:











CA-325B Specifics:

Length from the Sisquoc Station pig launcher to Pentland Station is approximately	
The line segment from Sisquoc S	tation to
Pentland consists of 30 inch outside diameter pipe with wall thickness of primarily	
The normal flow rate out of Sisquoc Station will be	
. Elevations of the various sites are as	follows:
Sisquoc Station – , High point between Sisquoc and Pentland –	at station
, Low point between Sisquoc and Pentland is	

Project Location:

The line fill for this segment will start at the Sisquoc Pump Station pig launcher and end at Pentland Station as shown in Exhibit A-3 below:







General Safety Precautions:

- All task work shall be completed in accordance with Pacific Pipeline Company (PPC) Operations
 Engineering Practices or Site-Specific Specifications.
- All Company and Contract personnel will be properly trained and/or OQ qualified for the tasks they have been assigned.
- All crew members possess Stop Work Authority and must immediately stop work and alert Field Representative or immediate supervisor if they detect any unsafe acts/conditions.
- All personnel shall have the appropriate PPE for the task at hand. Pigging operations and line fill shall follow standard operating procedures as well as this document.

Note that the station pressure safety valves are all thermal relief valves and are set for station pressures not pipeline pressures which are different.



Pre-Site Work Items:

•	Contractor and PPC personnel to stage all work materials and spill response equipment along the designated areas along the pipeline in the event of a release. Coordinate all work with Pipeline Operations Manager or his designee.
•	Purge all station piping of air utilizing nitrogen prior to filling operations. Purging of station piping should be completed from station inlet to station outlet. Verify system has been purged of concentration of air is to a level of 2% or less utilizing proper 4-way monitor with pump or other approved device. When purging station piping complete at a fast enough rate to sweep the lines but be careful to not spin the PD meters.
•	Stage temporary storage tank or vacuum truck at Las Flores and Gaviota Stations as needed. Vacuum truck might be needed to connect to vent points during the station pipe filling operations.
•	Obtain pig tracking transmitters and pig tracking receivers as well as geophones for pigging operations.
•	Verify pipeline valve line up and all sites are operational.
•	Isolate launcher at Las Flores Station and insert
•	station fill. Isolate launcher at Gaviota Station and insert pig in launcher prior to starting CA-324 line fill operations. Note that the starting will be launched utilizing the nitrogen from CA-324 as the crude oil is displacing the nitrogen in CA-324.
•	Isolate launcher at Sisquoc Station and insert pig in launcher prior to starting CA-325B line fill operations. Note that the will be launched utilizing crude oil. Begin line purging operations as described in the various sections outlined below.



A. Filling of Pipeline

used to push the pig through the line to Gaviota. Install PPC-approved pig at Gaviota Station			
to prepare for launch into CA-325A. The line (both CA-324 and CA-325) shall be set up for pigging from one end to the other with all valves lined up in the open position.			
The crude entering the pipeline shall be monitored for rate and recorded, as			
well as the injection pressure monitored and recorded.			

Install PPC-approved pig (pig #1) at Las Flores where the station piping and pumps will be

When the pig reaches Gaviota Station, shut down pumping operations and ensure that the pig #1 has arrived in the pig receiver. Once pig #1 has been verified, conduct a stand-up test during daylight hours maintained from Las Flores Station to Gaviota Station. Once the stand-up test (as defined in B.2), B.4) and B.5) below) is deemed complete and daylight hours are available, line fill can resume by lining up valves at Gaviota to bypass the trap.

B. Pressurizing and Holding Cycles

1) Safety Procedures

In addition to normal safety practices, PPC will institute and enforce safety measures appropriate to the degree of hazard existing along the pipeline during the line fill operation and stand-up pressure monitoring. Only those personnel necessary in executing the work will be present along the right-of-way during the work being performed.

2) Pressurizing and Instrument Recording

Once the entire line segment has been filled (Las Flores to Gaviota) a stand-up test shall be completed. The stand-up test shall be held for two hours in which all pressure-indicating transmitters will be monitored and recorded. The stand-up test shall be held at approximately for two hours then at approximately for an additional two hours. During the stand-up tests, the line and valve sites shall be patrolled, monitored and checked for any leaks. The stand-up tests shall only be completed during daylight hours. The stand-up test shall be



completed for each line segment (CA-324, CA-325A and CA-325B). Line segment CA-325B shall be held for only one test at 950 psig measured at Sisquoc Station.

3) Communications

Continuous two-way communication, preferably by voice radio or cellular, shall be maintained between stations, valve sites, PPC's Pipeline Control Center (PCC), and all other significant points along the portion of the line being filled and/or tested. Communications with governing agencies (OSFM, County Fire, OES, etc.) shall be set-up prior to any stand-up testing or line fill operations.

Contact list and shift responsibility will be provided to all personnel prior to starting line fill operations.

4) Pressure Hold Cycle

Upon bringing a line section to the stand-up pressure, it shall be held for at least two hours at a stable pressure. Temperature compensation might be required depending on crude oil temperature during line fill. A visual inspection of all valves and fittings attached to the segment should be made to ensure a tight test section. Visual inspection shall include fixed wing air patrol, helicopter or drone depending on location, weather and time of operations. Line riders shall also be designated to drive the line during filling operations as well as during stand-up testing. Once the line section has been tested, the pressure should be increased per the plan and tested for an additional two hours except for 325B which will only have one test.

5) Acceptance of Stand-Up Tests

To pass the stand-up test satisfactorily, the line shall maintain the test pressure for the specified time with no unexplained drop in pressure and with no indication of potential leaks or breaks. Stand-Up test must be witnessed and accepted by PPC and, as required, inspectors of governmental agencies having jurisdiction. All recordings will be completed using the PCC system. If needed, Crystal gauges can be added at certain points in the system.

Once stand-up test is complete and accepted by operations, the MOV's along the line segment should be function tested remotely from the control center with a technician on site to witness each valve test. All function tests should be documented along with actuation time of the valve.

6) Records and Reports

The PPC Control Room shall document all pressures and temperatures that were part of the Stand-Up tests utilizing the or other methods acceptable to PPC and governing agencies.



Temperature and pressure records should be printed out and shall contain the following additional information:

- The operator's name (Sable Offshore Corp.), the name and approval signature of the person responsible for making the test.
- The signature of PPC's representative and inspectors, if any required, of governmental agencies witnessing the test.
- The date and time of the test.

7	Comments
	Comments

Please refer to the individual section below for the specific steps then back to this section for the pressuring and hold cycles.

C. Sequence of Events for Line Fill

Las Flores Station -Line Fill

Directed by PCC

- Coordinate with PCC, LFC Operations and Pipeline Operations for work order at least two days prior to starting planned work.
- 2) Verify LFC Operations is ready to supply crude oil into Las Flores station.

3)

- 4) Verify all station valves are in the closed position prior to starting fill process. It should be noted that a System Programmer (PLC program at station) might be needed to allow certain valves to be opened during this process.
- 5) PCC designated Command to contact all required parties: Alert PCC, LFC, Gaviota & Sisquoc Facilities, Field Ops, ROW/Tracking crews, HSE, and required agencies that personnel are onsite and ready to take control of the line. Notification and approval to be as documented below.

Time

Bleed all nitrogen out of system utilizing

	Executed by	Time
	Approved by	Time
6)	LFC Operations to partially open	to begin flooding
		to be fully opened. Push
	crude up to l	and bleed
	nitrogen from high point vent downstream of	I
	possible, use tank head to flood station lines. If not feasible	e, then LFC Operations will need
	to start the charge pumps.	
7)	Once all nitrogen has been removed from upstream pipi	ng then slowly flood meter and
	prover piping up to pump suction valves	

as needed.



- 8) Once all nitrogen has been removed from suction piping, to allow oil to flood piping up to the pumps.

 9)
- 10) Once all discharge piping is flooded and nitrogen bled, to flood piping all the way back to the pump discharge. Bleed all nitrogen from high points or vents as needed.
- 11) After all pump suction piping and discharge piping has been bled of nitrogen, then push crude oil to station discharge pressure control system (

 Bleed all nitrogen up to
- 12) Once all nitrogen has been bled from the station piping and all connections have been verified then have LFC Operations start booster pumps to pressurize the station piping.
- 13) Once station piping has been pressurized, have LFC Operations shutdown and close in station piping under pressure. Conduct stand-up test on all station piping utilizing just shut-in pressure. Hold and monitor for two hours to verify no station leaks.



CA-324 Line Fill

14) Coordinate with PCC, LFC Operations and Pipeline Operations planned line fill.	rations for work order at least two
15)	
16) PCC designated Command to contact all required parts Sisquoc Facilities, Field Ops, ROW/Tracking crews, I personnel are onsite and ready to take control of the line	HSE, and required agencies that
as documented below.	
Directed by PCC	Time
Executed by	Time
Approved by Command	Time
17) Verify launcher at Las Flores Station is isolated and dra	Install pig tracker in 24-inch
18) LOTO — LFC launcher: Pipeline Field Operations to beg safe valve line up and tag/lock launcher isolation valves,	vent, and drain per procedure.
Directed by PCC	Time
Executed by	Time
Approved by Command	Time
19) Depressurize and drain Las Flores launcher:	
Directed by PCC	Time
Executed by	Time
Approved by Command	Time
20) Verify launcher at Gaviota is isolated and drained down or pig into launcher Ensure pig i	of any pressure, then load
21) LOTO — Gaviota launcher: Pipeline Field Operations	
ensure safe valve line up and tag/lock launcher isola procedure.	
Directed by PCC	Time
Executed by	Time
Approved by Command	Time
22) Depressurize and drain Gaviota launcher:	Time
Directed by PCC	Time



	Executed by	Time	
	Approved by Command	Time	
23)	Verify line pressure on CA-324 and CA-325A prior to starting operations.		
24)	Will need at least a to launch pig at Gav Verify all station valves at Gaviota are in the closed position	viota.	
25)	Verify all station valves at Gaviota are in the closed position	except for	
Ser particular	will be opened once the pressure across it is equal or the		
	the downstream pressure.		
26)	Gaviota Launcher/Receiver-Pipeline Field Operations to e	ensure line up through station	
	from launcher to receiver is "open" and notify PCC.		
	Directed by PCC	Time	
	Executed by	Time	
	Approved by Command	Time	
27)	Executed by	ge and Gaviota Station is ready	
	to receive pig.		
	Executed by	Time	
	Okayed by	Time	
28)	Verify LFC Operations is ready to supply crude oil to Las F	Flores Station.	
	Sisquoc Station- Pipeline Field Operations ensure clear pa		
50	Stand by and monitor pressure.	n-7	
	Directed by PCC	Time	
	Executed by	Time	
	Approved by Command	Time	
30)	PCC to receive field verification that all valves and pump	controls are in remote control	
	and lined up from LFC to Gaviota to Sisquoc.		
	Directed by PCC	Time	
	Enceuted of	Time	
	Approved by Command	Time	
31)	PCC to line up valves and select pump to run.		
32)	Provide "Permissive" to LFC Operations from PCC.		
33)	Once LFC Operations has their booster pumps running then		
	enough to fill barrel with crude and p	purge any remaining nitrogen.	
	Vent nitrogen to vacuum truck or to drain system.		
34)	Fill and equalize launcher: Pipeline Field Operations to	fill LFC launcher with crude,	
	utilizing tank head pressure or LFC booster pump as n	eeded, purge nitrogen to vac	
	truck/drain, equalize to mainline pressure, confirm no leaks		
	Directed by PCC	Time	
	Executed by	Time	
	Approved by Command	Time	
35)	Once trap is full of crude then let PCC know that system is	ready to run.	
36)	Verify launch conditions: Check across		
	Directed by PCC	Time	



	Executed by	Time
	Approved by Command	Time
37)	Verify all personnel are ready and in place to monitor the	ne pipeline and regulate flow at
	Gaviota.	
38)	Verify pig trackers are in place and ready to track the pig	beginning at high point vent at
	LFC.	
	Directed by PCC	Time
	Executed by	Time
	Approved by Command	Time
	Verify launch sequence with PPCC. PPCC to notify LF	C control room is ready for pig
	launch.	
	Directed by PCC	Time
	Executed by	Time
	Approved by Command	Time
	PCC to start pump at Las Flores Station at low flow of 10	00 BPH.
41)	Launch pig:	
		riota station and Sisquoc Station.
	Directed by PCC	Time
	Executed by	Time
	Approved by Command	Time
(5)	Notify pig trackers when pig launches and flow rate.	
43)	Gaviota to regulate flow through	
8		
	Directed by PCC	Time
	Executed by	Time
	Approved by Command	Time
	Gaviota to launch 30-inch pig once differential pressu	
	additional pressure is needed to launch pig, then reduce op	bening of
4.53	Greis (St.	Town 1 min
	Gaviota:	Launch pig .
	Directed by PCC	Time
	Executed by	Time
	Approved by Command	Time
	PCC and field to monitor flow, pressure and temperature a	nong CA-324 as well as monitor
	CA-325A.	l susultario nellador medio en ethan
52	PCC and field to maintain open communications during all	i work via centuar, radio of other
	means. DCC to adjust flow rate once system is steady and comforts	shla with exetam I in a fill about
632	PCC to adjust flow rate once system is steady and comforta	iole with system. Line iii should
	be approximately	



49) If a shutdown is needed, shut system in and i	
closing the valve closest to Pig trackers	
any valves unless it is an emergency. PCC and	
minimize the amount of crude through a valve	e prior to shut down. Once line is shut in,
PCC will monitor pressure and temperature to	for duration of shut in period. Continue
process until entire line is filled with crude oil.	
50) Once is received in the trap at Gaviota, sh	nut down operations and isolate the pipeline
by shutting	
51) Pig receipt at Gaviota: When pig is received f	from 324, notify PCC to stop flow, notify
tracking crews, and. LFC control room. (PCC t	
Directed by PCC	Time
Executed by	Time
Approved by Command	Time
52) Conduct stand-up pressure test of CA-324 by	
100	
Directed by PCC	Time
Executed by	Time
Approved by Command	Time
53) CA-324 to be pressured up	aylight hours and held for two (2) hours. If
all looks good, then pressure up	hold for two (2) hours. Provide monitoring
data to regulating agency as needed to conti	nue operations. Utilize pipeline pressure
transmitter downstream of launcher at each stat	ion for monitoring point. All stand-up tests
will be witnessed by a OSFM representative.	
Directed by PCC	Time
Executed by	Time
Approved by Command	Time
54) Isolate and depressurize receiver:	LOTO
depressurize and prepare to open door.	
Directed by PCC	Time
Executed by	Time
Approved by Command	Time
55) Once CA-324 has been successfully purged of a	
all Gaviota Station piping of nitrogen.	
56) Provide approval to proceed to next phase of sta	ation/line filling operations.
Directed by PCC	
Executed by	
Approved by Command	Time



Gaviota Station -Line Fill

57)) Coordinate with PCC, LFC Operations and Pipeline Operations for work order at least two days prior to starting planned work.		
58)	Verify LFC Operations is ready to supply crude oil into Gaviota Station.		
	59)		
60) Verify all station valves are in the closed position prior to starting fill process. It should be noted that a System Programmer might be needed to allow certain valves to be opened during this process.			
61)	PCC designated Command to contact all required parties: Alert PCC, LFC, Gaviota & Sisquoc Facilities, Field Ops, ROW/Tracking crews, HSE, and required agencies that personnel are onsite and ready to take control of the line. Notification and approval to be as documented below.		
	Directed by PCC Time		
	Executed by Time		
000	Approved by Command Time		
62) Utilize line pressure from CA-324 if possible, to purge nitrogen from Gaviota Station piping. Station piping should be purged of nitrogen in stages. Pig receiver to upstream side of meter system, meter system, suction piping, then discharge piping. It might be possible to purge the suction and discharge piping at the same time depending on valve line up.			
	Bleed all nitrogen up to		
S.	Once all nitrogen has been removed from upstream piping then slowly flood meter up to pump suction valves Once all nitrogen has been removed from suction piping, open		
	to allow oil to flood piping up to the pumps.		
66)	Manually open		
	Bleed all nitrogen from pump piping and all discharge piping.		
67)	Once all discharge piping is flooded and nitrogen bled, Bleed all nitrogen from high points or vents as needed.		
68)	After all pump, pump suction piping and discharge piping has been bled of nitrogen, then push crude oil to station discharge pressure control system		
69)	Once all nitrogen has been bled from the station piping and all connections have been verified then have PCC controllers start Las Flores Station pumps to pressurize the Gaviota Station piping.		



70) Once station piping has been pressurized have PCC shutdown and close in station piping under pressure. Conduct stand-up test during daylight hours on all station piping utilizing just shut-in pressure. Hold and monitor for two hours to verify no station leaks.

CA-325A Line Fill

71) Coordinate with PCC, LFC Operations and Pipeline Operations	erations for work order at least two
days prior to starting planned line fill.	
72)	
73) Notify all required parties: Alert PCC, LFC, Gaviota	a & Sisquoc Stations, Field Ops,
ROW/Tracking crews, HSE, and required agencies that	t personnel are onsite and ready to
take control of the line 324 and 325A.	
Directed by PCC	Time
Directed by PCC	Time
Approved by Command	
into launcher install pig insertion into pig trap if available. Ensure pig is seated trap. 75) LOTO — Gaviota launcher: Pipeline Field Operations ensure safe valve line up and tag/lock launcher isola procedure.	to begin LOTO on pig launcher,
Directed by PCC	Time
Executed by	Time
Approved by Command	Time
76) Depressurize and drain Gaviota launcher:	
D' 11 DGG	m:
Directed by PCC	Time
Executed by	Time
Approved by Command	Time
77) Load pig into launcher with tracker (correct orientation closure, maintain LOTO until launch authorized.	
Directed by PCC	
Executed by	Time
Approved by Command	Time
78) Verify line pressure on CA-324 and CA-325A prior to s	starting operations.



79) If pressure on CA-324 is enough, use to fill Gavio	
launch pig. If pressure is not enough, then the launch	
prior to starting, using a vacuum truck. Provide end	ough pressure on launcher to equalize
across	
80) Fill and equalize launcher: Pipeline Field Operation	
utilizing pipeline pressure or vacuum truck as need	ed, purge nitrogen to vac truck/drain,
equalize to mainline pressure, confirm no leaks.	
Directed by PCC	
Executed by	Time
Approved by Command	
81) LOTO — Sisquoc receiver: LOTO start, close/ta	g/lock receiver isolation valves, and
prepare -	
Directed by PCC	Time
Executed byApproved by Command	Time
	Time
82) Confirm with PPCC pig is loaded at Gaviota Static	
existing line pressure from 324 through by-pass to e	equalize to within 5 psig of 325A line
pressure.	
Directed by PCC	Time
Executed by	Time
Approved by Command	Time
83) Gaviota Station to confirm with Sisquoc Station pig	is ready for launch and to stand by for
startup	
Directed by PCC	Time
Directed by PCCExecuted by	Time
Approved by Command	Time
84) Once trap is full of crude then let PCC know that pig	
to run.	
Directed by PCC	Time
Executed by	
Approved by Command	
85) Plan to push crude from Las Flores and Gaviota Sta	tion as needed to Sisquoc during CA-
325A line fill operations. If pressure at	
86) Line up Gaviota station piping to flow through the	Bypass system during initial push out
of Gaviota. Open valve	Line up to
launch	er.
87) Verify all station valves at Gaviota are lined up per t	he planned flow path and one meter is
utilized for flow measurement.	Vaces 0773
88) Verify LFC Operations is ready to supply crude oil t	to Las Flores Station.
89) PCC to receive field verification that all valves and	



90) PCC to line up valves at Las Flores and Gaviota S	tations and select pump at Las Flores
Station to run.	Time
Directed by PCC	Time
Executed by	Time
Approved by Command	
91) PCC to Receive "Permissive" from LFC Operation	is. Note that Pentiand Pennissive will
need to be bypassed in order to start system.	ricks to track bounds assumed
92) PCC to set meter track at Las Flores Station and Ga	
Directed by PCC	Time
Executed by	Time
Approved by Command	Time
has started, verify flow rate and pressures.	pumps running and Las Flores Station
94) Verify all personnel are ready and in place to mor	nitor the nineline and regulate flow at
Gaviota.	intof the pipeline and regulate flow at
95) Verify pig trackers are in place and ready to track the	ne pig out of Gaviota
96) PCC to start pump at Las Flores Station at	
97) Notify pig trackers when pig launches and flow rate	
98) Sisquoc to regulate flow through the pig receiver	
3)	
99) Vent and backpressure control Sisquoc Station: Cr	rack vent to confirm control;
	NAT SI
Directed by PCCExecuted by	Time
Executed by	Time
Approved by Command	Time
100) Track pig at all Valve sites and report to PCC of	pig passage. Pipeline Field Operations
track pressures, temps, flow, and pig location.	
Directed by PCC	
Executed by	
Approved by Command	
101) PCC and field to monitor flow, pressure and to	emperature along CA-324 as well as
monitor CA-325A as it is filled.	
Directed by PCC	
Executed by	Time
Approved by Command	Time
	during all work via cellular, radio or
other means.	1
103) PCC to adjust flow rate once system is steady an	
pump is needed to reduce pressure on Line 324, the	ien verify pump line up at Gaviota and
start the appropriate pump.	



104) If a shutdown is needed, shut system in and isolate the segment that has crud			
	closing the valve closest to Pig trackers to verify location of pig prior to shutting		
	any valves unless it is an emergency. Once line is shut in,		
	temperature for duration of shut in period. Once line fill r	and the second s	
	entire line is filled with crude oil.		
105)	Once is received in the trap at Sisquoc, shut dow	n shipping pumps at LFC and	
	Gaviota then isolate the pipeline by shutting		
	Directed by PCC	Time	
	Executed by	Time	
	Approved by Command	Time	
106)	Conduct stand-up pressure test of CA-325A by placing I	The state of the s	
	operation and pressure line using the mainline pump(s)		
	needed. Station valves will need to be placed in local mo		
	to pressure up the lines.		
	Directed by PCC	Time	
	Executed by	Time	
	Executed byApproved by Command	Time	
107)	CA-324 and CA-325Ato be pressured up during daylight	hours to and held for	
12	two (2) hours. If all looks good, then pressure up to and hold for two (2) hours.		
	Provide monitoring data to regulating agency as needed	to continue operations. Utilize	
	pipeline pressure transmitter downstream of launcher at each station for monitoring		
	point. All stand-up tests will be witnessed by a OSFM representative.		
	Directed by PCC	Time	
	Executed by	Time	
	Approved by Command	Time	
108)	Isolate and depressurize receiver:		
8524	LOTO depressurize and prepare to open door.		
	Directed by PCC	Time	
	Executed by	Time	
	Approved by Command	Time	
109)	Once CA-324 and CA-325A have been successfully purge	ed of all nitrogen begin the next	
	phase of purging all Gaviota Station piping of nitrogen.		
110)	Provide approval to proceed to next phase of station/line	filling operations.	
	Directed by PCC	Time	
	Executed by	Time	
	Approved by Command	Time	



Sisquoc Station -Line Fill

111) Coordinate with PCC, LFC Operations and Pipeline Operations for work order at least two days prior to starting planned work.
112) Verify LFC Operations is ready to supply crude oil into Sisquoc Station.
113) PCC designated Command to contact all required parties: Alert PCC, LFC, Gaviota, Sisquoc & Pentland Encilities Field Operations of Pow/Tracking crews HSE and required

110)	The designated command to contact an required pa	anes. There i co, Li c, ouvious,		
	Sisquoc & Pentland Facilities, Field Ops, ROW/Tra	cking crews, HSE, and required		
	agencies that personnel are onsite and ready to take co	ntrol of the line. Notification and		
	approval to be as documented below.			
	Directed by PCC	Time		
	Executed by			
	Approved by Command	Time		
114)	Vacuum truck on standby at Sisquoc Station to ble	ed nitrogen through. Make sure		
	vacuum truck has carbon canister to vent through.			
115)	Verify all station valves are in the closed position prio	r to starting fill process. It should		
	be noted that a System Programmer might be needed to	allow certain valves to be opened		
	during this process.			
116)	Utilize line pressure from CA-324 and CA-325A if	possible, to purge nitrogen from		
	Sisquoc Station piping. Station piping should be pu	irged of nitrogen in stages. Pig		
	receiver to upstream side of meter system, meter system, suction piping, then discharge			
	piping. It might be possible to purge the suction and discharge piping at the same time			
	depending on valve line up. If needed, start one shipping pump at Las Flores station and			
	one shipping pump at Gaviota station in bypass mode to slowly pressurize Sisquoc			
	Station.			
	Directed by PCC	Time		
	Executed by	Time		
	Approved by Command	Time		
117)	Bleed all nitrogen up to			
118)	Once all nitrogen has been removed from upstream pip	ing then slowly flood meter up to		
	pump suction valves			
119)	Once all nitrogen has been removed from suction pipi	ng,		
		**		
120)	Manually open			
121)	Once all discharge piping is flooded and nitrogen blo	ed,		



122) After all pump suction piping and discharge piping has been bled of nitrogen, then push crude oil to station discharge pressure control system

123) Once all nitrogen has been bled from the station piping and all connections have been verified then have PCC controllers start Las Flores Station pumps to pressurize the Sisquoc Station piping.

1	Once station piping has been pressurized have PCC shutdown and close in station piping
	under pressure. Conduct stand-up test on all station piping utilizing just shut-in pressure.
	Hold and monitor for two hours to verify no station leaks.

Directed by PCC	Time	
Executed by	Time	
Approved by Command	Time	



CA-325B Line Fill

125)	Coordinate with PCC, LFC Operations, Pipeline Operations and Plains for work order a least two days prior to starting planned line fill.		
126)	Verify launcher at Sisquoc is isolated and drained do	wn of any pressure, then load	
	pig into launcher In	stall pig tracker in 30-inch cavity	
	prior to insertion into pig trap if available. Ensure pig	g is seated in 30-inch pipe section	
	then close trap.		
127)	Verify line pressure on CA-324, CA-325A and CA-32	25B prior to starting operations.	
128)	PCC designated Command to contact all required p	arties: Alert PCC, LFC, Gaviota,	
	Sisquoc & Pentland Stations, Field Ops, ROW/Tra	cking crews, HSE, and required	
	agencies that personnel are onsite and ready to take control of the line 324, 325A and		
	CA-325B. Notification and approval to be as document	nted below.	
	Directed by PCC	Time	
	Executed by		
	Approved by Command	Time	
129)	LOTO — Sisquoc launcher: LOTO launcher valv	es	
	Directed by PCC	Time	
	Executed by	Time	
	Approved by Command	Time	
130)	Depressurize and drain launcher:		
	Directed by PCC	Time	
	Executed by	Time	
	Approved by Command	Time	
131)	Load pig into launcher: Load fill pig into launc		
	orientation, close/secure barrel, leak-check closure, maintain LOTO until launch		
	authorized.		
	Directed by PCC		
	Executed by		
	Approved by Command	Time	
132)	If pressure on CA-324 and CA-325A is enough, use to		
	up valves to launch pig. If pressure is not enough, then the launcher will need to be filled		
	with crude oil prior to starting, using a vacuum truck	or by starting/bumping the pump	
	at Las Flores Station and Gaviota Station as needed.		
133)	Fill and equalize launcher: Pipeline Field Operations t	The state of the s	
	utilizing pipeline pressure or vacuum truck as needed	purge nitrogen to vac truck/drain,	
	equalize to mainline pressure, confirm no leaks.		
	Directed by PCC	Time	
	Executed byApproved by Command	Time	
	Approved by Command	Time	



134)	Once trap is full of crude then let PCC know that pig is rea	dy to launch and system is	
	ready to run.		
	Directed by PCC	Time	
	Executed by	Time	
	Approved by Command	Time	
135)	Approved by Command	ceiver isolation valves,	
	Directed by PCC	Time	
	Executed by	Time	
	Approved by Command	Time	
136)	Once trap is full of crude then let PCC know that system is r	eady to run.	
137)	Confirm tracker ID and comms: Verify tracker signal, confir	rm with PPCC and tracking	
	crews ready for launch.		
	Directed by PCC	Time	
	Executed by	Time	
	Approved by Command	Time	
138)	Notify Pentland Station (Plains Operations) that PPC is starti	ng to purge CA-325B of air	
	Directed by PCC	Time	
	Executed by Approved by Command	Time	
	Approved by Command	Time	
139)	Plan to push crude from Las Flores and Gaviota Station as needed to Sisquoc during		
	CA-325B line fill operations.		
140)			
141)	Verify all station valves at Gaviota are lined up per the planned flow path and one meter		
	is utilized for flow measurement.		
	Directed by PCC	Time	
	Executed by	Time	
	Approved by Command	Time	
142)	Verify all station valves at Sisquoc are lined up per the plann	ned flow path and one meter	
	is utilized for flow measurement.		
	Directed by PCC	Time	
	Executed by	Time	
	Approved by Command	Time	
143)	Verify LFC Operations is ready to supply crude oil to Las Fl	ores Station.	
	Directed by PCC	Time	
	Executed by	Time	
	Approved by Command	Time	
144)	Verify Pentland Station is ready to receive and regulate air fl		
estimated Maria	Directed by PCC	Time	
	(VE)		



	Executed by	Time	
	Approved by Command	Time	
145)	PCC to receive field verification that all valves and pump cont	trols are in remote control.	
(**************************************	Directed by PCC	Time	
	Executed by	Time	
	Approved by Command	Time	
146)	PCC to line up valves at Las Flores, Gaviota and Sisquoc as w		
	and Gaviota to run. PPC to verify Pentland Station is staffed at		
	temporary tankage.		
	Directed by PCC	Time	
	Executed by	Time	
	Approved by Command	Time	
147)	PCC to Receive "Permissive" from LFC Operations. Note that	t Pentland Permissive will	
	need to be bypassed in order to start system.		
148)	PCC to set meter track at Las Flores, Gaviota and Sisquoc to t	rack barrels pumped.	
	Once LFC Operations has their booster pumps running and Las		
	verify flow rate and pressures.		
	Directed by PCC	Time	
	Executed by	Time	
	Approved by Command	Time	
150)	Verify all personnel are ready and in place to monitor the pip	eline and regulate flow at	
	Sisquoc.		
151)	Verify pig trackers are in place and ready to track the pig #6 of	out of Sisquoc.	
	Directed by PCC	Time	
	Executed by	Time	
	Approved by Command	Time	
152)	PCC to start pump at Las Flores Station at	hen start Gaviota as	
	needed then start Sisquoc.		
153)	Sisquoc Station: Once confirmed pressure has equalized to v		
		to launch pig.	
	Directed by PCC	Time	
. 1	Executed by	Time	
	Approved by Command	Time	
154)	Notify pig trackers when pig launches and flow rate.		
	Directed by PCC	Time	
	Executed by	Time	
	Approved by Command	Time	
155)	Pentland to regulate flow through the pig receiver	Maintain at	
	least to maintain line pack and regulate pig velocity.	NAME OF THE PARTY	
	Directed by PCC	Time	
	Executed by	Time	
	Approved by Command	Time	



136)	101	men close the
	1	to allow air pressure to build to
	approximately	valve to regulate flow into
	4	
	Directed by PCC	Time
	Executed by	Time
	Approved by Command	Time
157)	PCC and field to monitor flow, pressure and to	
	well as monitor CA-325B as it is filled. Sisquoc	discharge pressure should be kept below
	Directed by PCC Executed by	Time
	Approved by Command	Time
158)	PCC and field to maintain open communicatio	ns during all work via cellular, radio or
	other means.	
159)	PCC to adjust flow rate once system is steady	and comfortable with system. Line fill
	from Sisquoc to Pentland should be approximat	rely
160)	If a shutdown is needed, shut system in and iso	plate the segment that has crude in it by
	closing the valve closest to Pig #6. Pig trackers	to verify location of pig prior to shutting
	any valves unless it is an emergency. Once line	is shut in, PCC will monitor pressure and
	temperature for duration of shut in period. Once	e line fill resumes, continue process until
	entire line is filled with crude oil.	sec
161)		
162)		
. //		
	Directed by PCC_	Time
	Executed by	Time
	Approved by Command	Time
163)		



164)			
165)			
103)			
166)	Receive pigs then shut down entire pipeline system.	3)	
2	Directed by PCC	Time	
	Executed by	Time	
	Approved by Command	Time	
167)	Apply LOTO to receiver, drain down utilizing	and remove pigs from	
	receiver.		
	Directed by PCC	Time	
	Executed by	Time	
	Approved by Command	Time	
168) Close pig receiver, fill pig launcher with fluid, ensure integrity and notify Po			
	lined up and ready to resume opera	tions.	
	Directed by PCC	Time	
	Executed byApproved by Command	Time	
	Approved by Command	Time	
169)	Once pigs have been removed, pig receiver va	alves lined up and	
		g #5 is approximately	
	upstream of Pentland.		
170)			
	Pi du poo		
	Directed by PCC	Time	
	Executed by	Time	
171	Approved by Command	Time	
171)	Once Pig #6 is received in the trap at Pentland, notify PPC	to shut down operations and	
	isolate the pipeline by shutting	TO THE STREET	
	Directed by PCC	Time	
	Executed by	Time	
170	Approved by Command	Time	
1/2)	Conduct stand-up pressure test of CA-325B by placing Si		
	pressure line using the mainline pump and recirculation sys		
	to be placed in local mode as well to operate as needed to pressure up the line. Verify		
	suction pressure at Sisquoc to allow operation of pump. If ne	eeded, Las Flores and Gaviota	
1.70	might need to be started for a short period.	11.6 / (2).1 D :1	
1/3)		eld for two (2) hours. Provide	
	monitoring data to regulating agency as needed to continue		
	pressure transmitter downstream of launcher at each stati	배지 시험하다는 내 지하다면 그 전화 회사는 사람들은 내가 있어요. 그 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은	
	stand-up tests will be witnessed by a OSFM representative.		



	Directed by PCC	Time	
	Executed by	Time	
	Approved by Command	Time	
174)	Once CA-325B has been successfully purged of all a	ir/nitrogen/water begin the nex	
	phase of purging all Pentland Station piping of nitrogen	1800	
175)	Provide approval to proceed to next phase of station filling operations.		
	Directed by PCC	Time	
	Executed by	Time	
	Approved by Command	Time	



Pentland Station -Line Fill

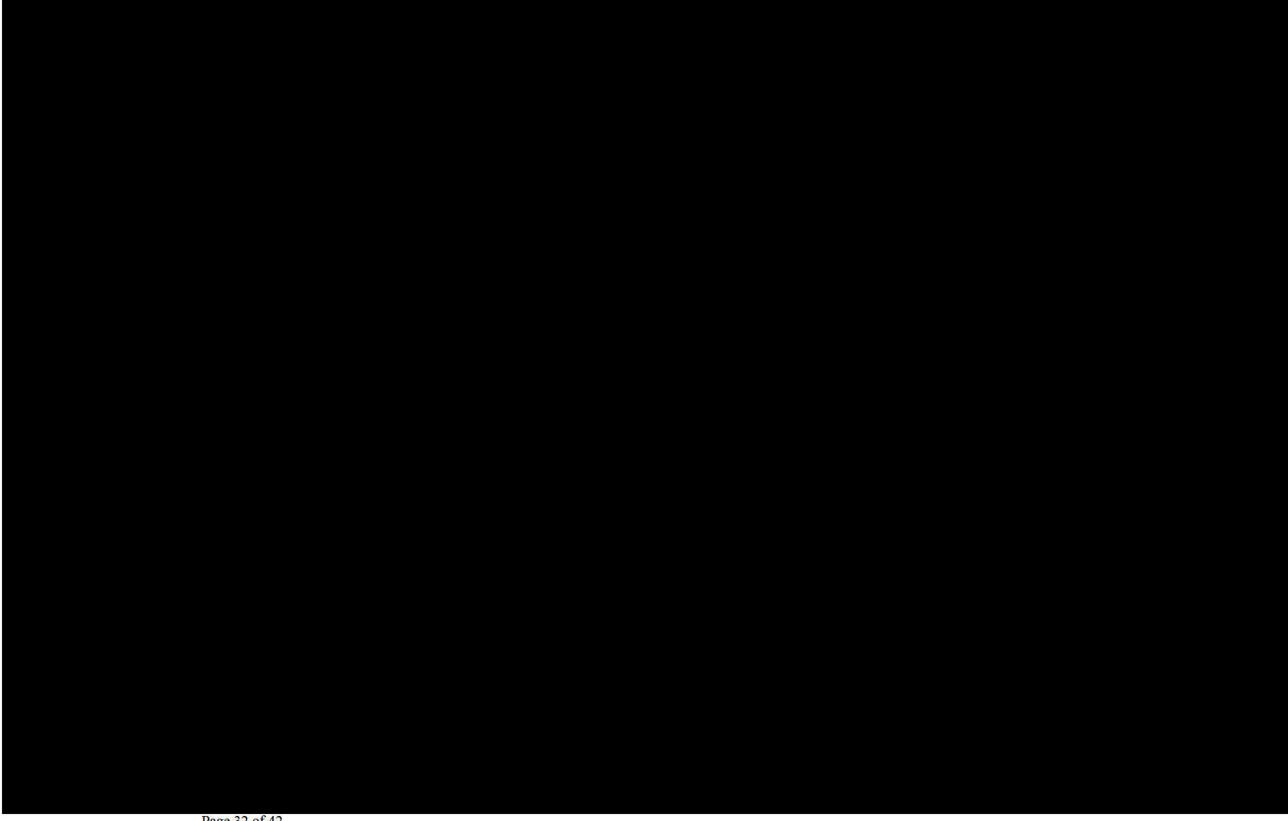
176) Coordinate with PCC, LFC Operations, Pipeline Operations and Plains for work order at least two days prior to starting planned work.
177) Verify LFC Operations is ready to supply crude oil into Pentland Station.
178) Vacuum truck on standby at Pentland Station to bleed nitrogen through. Make sure

	vacuum truck has carbon camster to vent through.			
179)	PCC designated Command to contact all required parties: Alert PCC, LFC, Gaviota,			
	Sisquoc & Pentland Stations, Field Ops, ROW/Tracking crews, HSE, and required			
	agencies that personnel are onsite and ready to take control of the line 324, 325A and			
	CA-325B. Notification and approval to be as documented below.			
	Directed by PCC	Time		
	Executed by			
	Approved by Command	Time		
180)	Verify all station valves are in the closed position prior to starting fill process. It should			
	be noted that a System Programmer might be needed to allow certain valves to be opened			
	during this process.			
181)	Utilize line pressure from CA-325B if possible, to purge nitrogen from Pentland Station			
2000	piping. Station piping should be purged of nitrogen in stages. Pig receiver to upstream			
	side of meter system, relief system, meter system, pressure control system, Plains piping			
	system. All work will need to be coordinated with Plains prior to starting the purge of			
	nitrogen from the system. Note that head pressure will be approximately			
	Pentland Station and that line should be kept packed during station filling process.			
	Directed by PCC	Time		
	Executed by	Time		
	Approved by Command	Time		
182)	Bleed all nitrogen up to			
	Directed by PCC	Time		
	Executed by	Time		
	Approved by Command	Time		
183)	Once all nitrogen has been removed from upstream piping then slowly flood meter up to			
	pressure control valves	Bleed all nitrogen out of system		
	utilizing bleed valves and vacuum truck as needed.			
	Directed by PCC	Time		
	Executed by	Time		
	Executed byApproved by Command	Time		
184)	Once all nitrogen has been removed from meters, bleed all nitrogen from the pressure			
	control system, all the way up to			
	demarcation to allow oil to flood piping up to the specification break from			
	manufacture GD SP = SP			
	Directed by PCC	Time		



	Executed by	Time	
	Approved by Command	Time	
185)	All piping downstream of this demarcation point will need t	o be coordinated with Plains	
	to bleed all of the air/nitrogen out of the system prior to startup.		
186)	PCC to receive field verification that all valves and pump co	ontrols are in remote control.	
	Once all nitrogen has been bled from the station piping and all connections have been		
	verified then have PCC controllers start system pumps to pressurize the Pentland Station		
	piping.		
187)	Once station piping has been pressurized have PCC shutdow	n and close in station piping	
	under pressure. Conduct stand-up test on all station piping utilizing just shut-in pressure.		
	Hold and monitor for two hours to verify no station leaks.	Shut in pressure should be	
	approximately		
	Directed by PCC	Time	
	Executed by	Time	
	Approved by Command	Time	
188)	Provide monitoring data to regulating agency as needed to continue operations. Utilize		
	Station pressure transmitter		
	stand-up tests will be witnessed by a OSFM representative.		
	Directed by PCC	Time	
	Executed by	Time	
	Approved by Command	Time	
189)	After completion of line fill and station fill operations, verify all systems and valves are		
	placed back in "normal operating" position with use of line-up sheet to ensure normal		
	operations and have line fill close out meeting. Meeting should include personnel and		
	agencies involved in process to document final approvals and any recommended		
	improvements.		



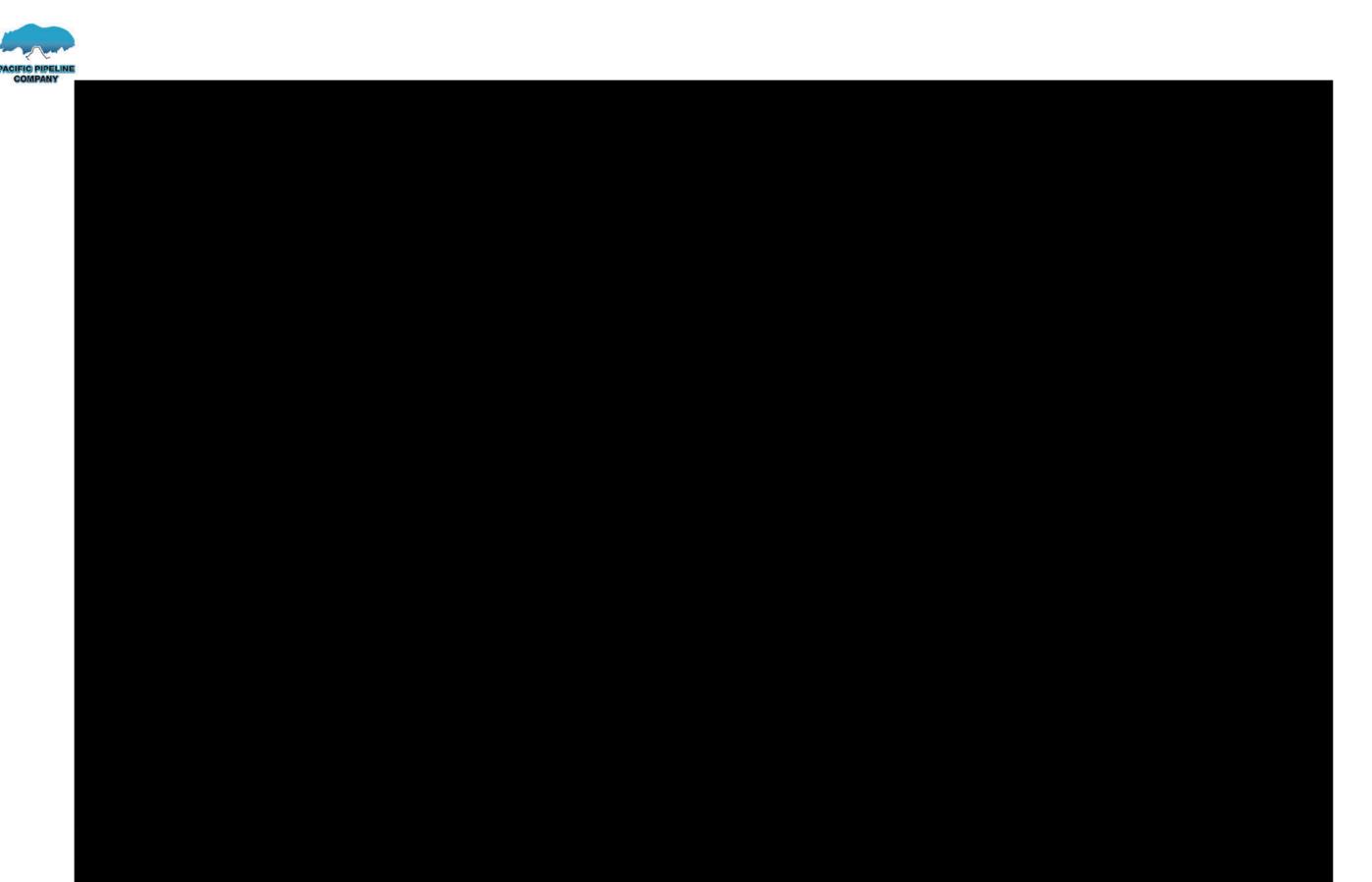


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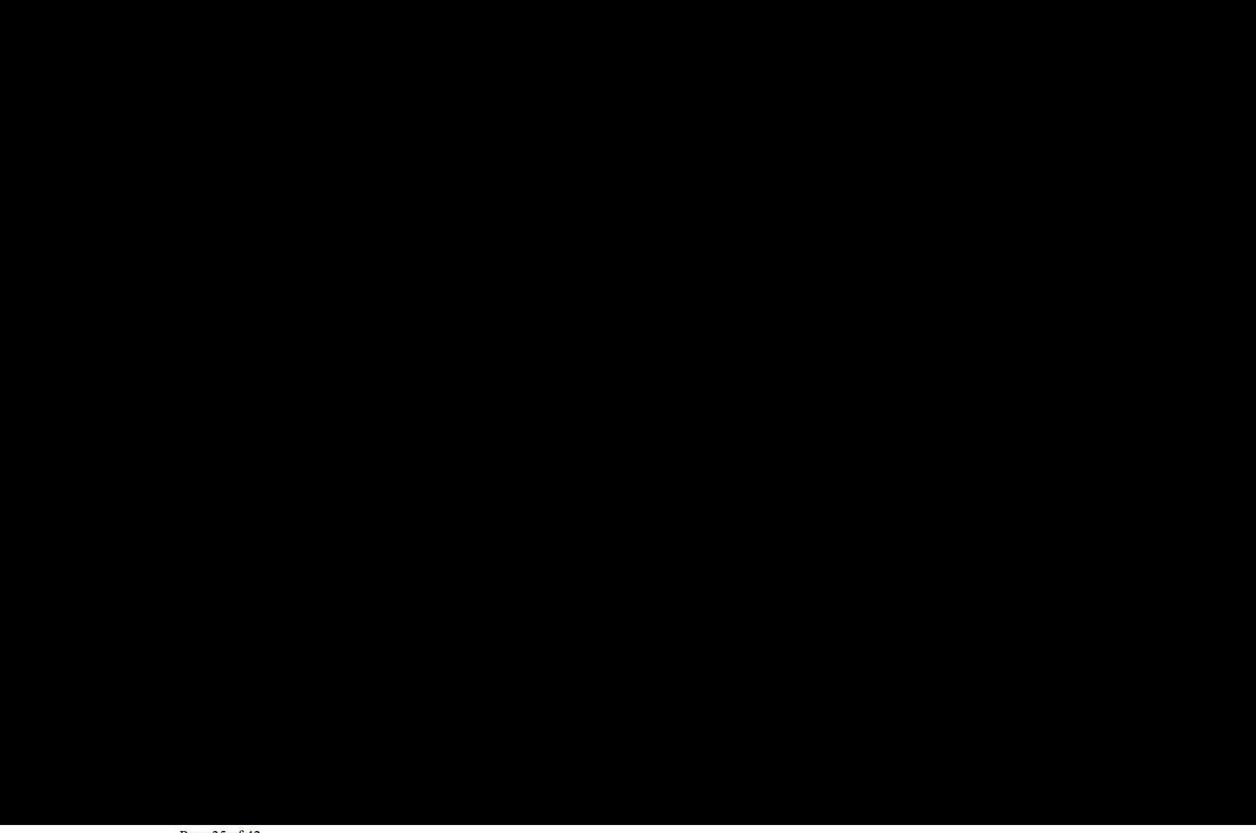


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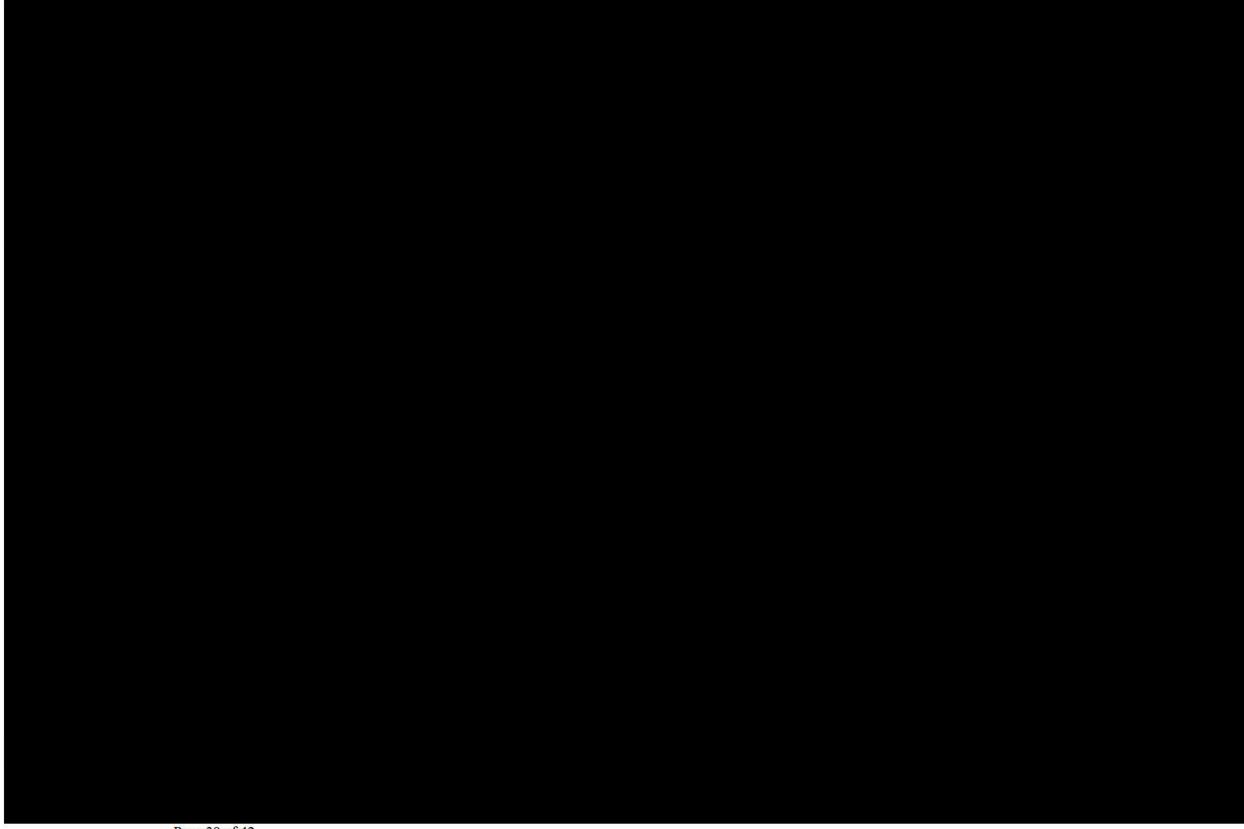
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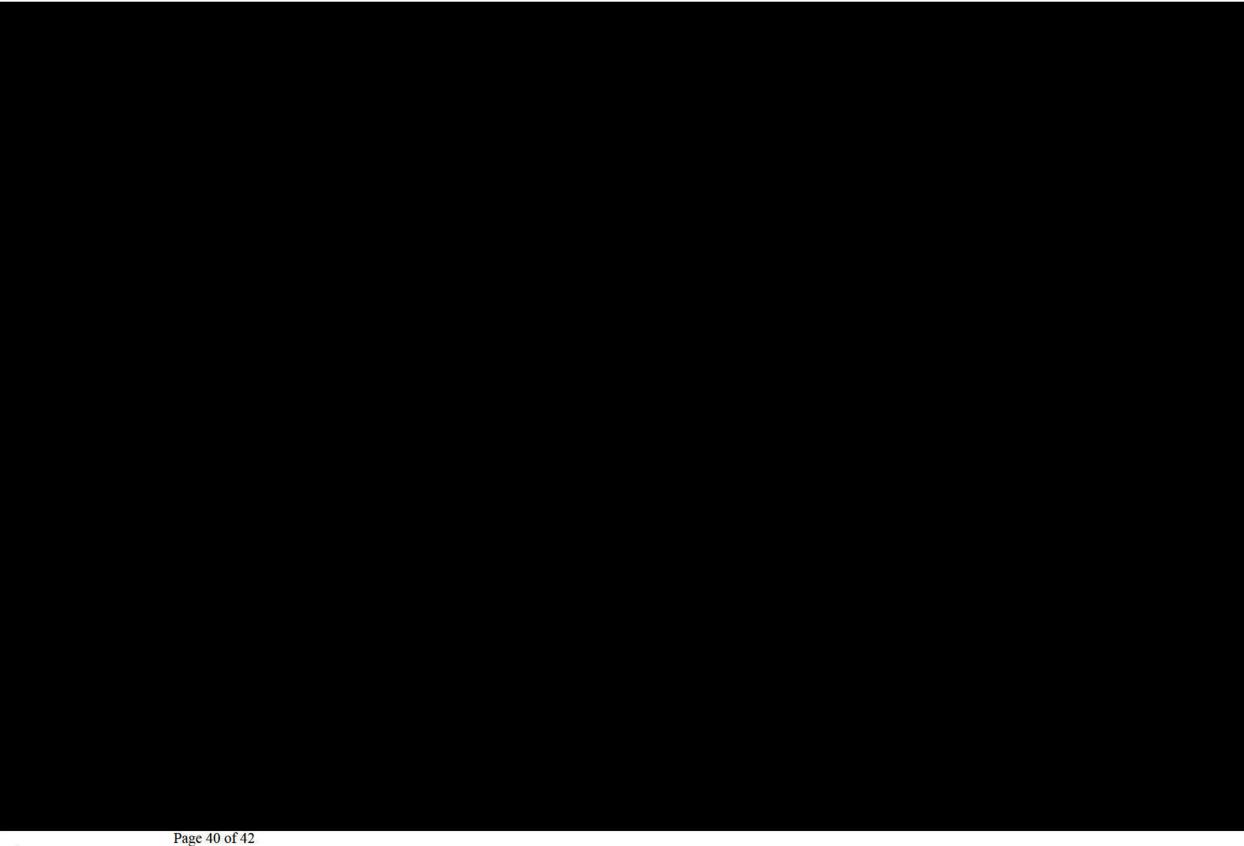
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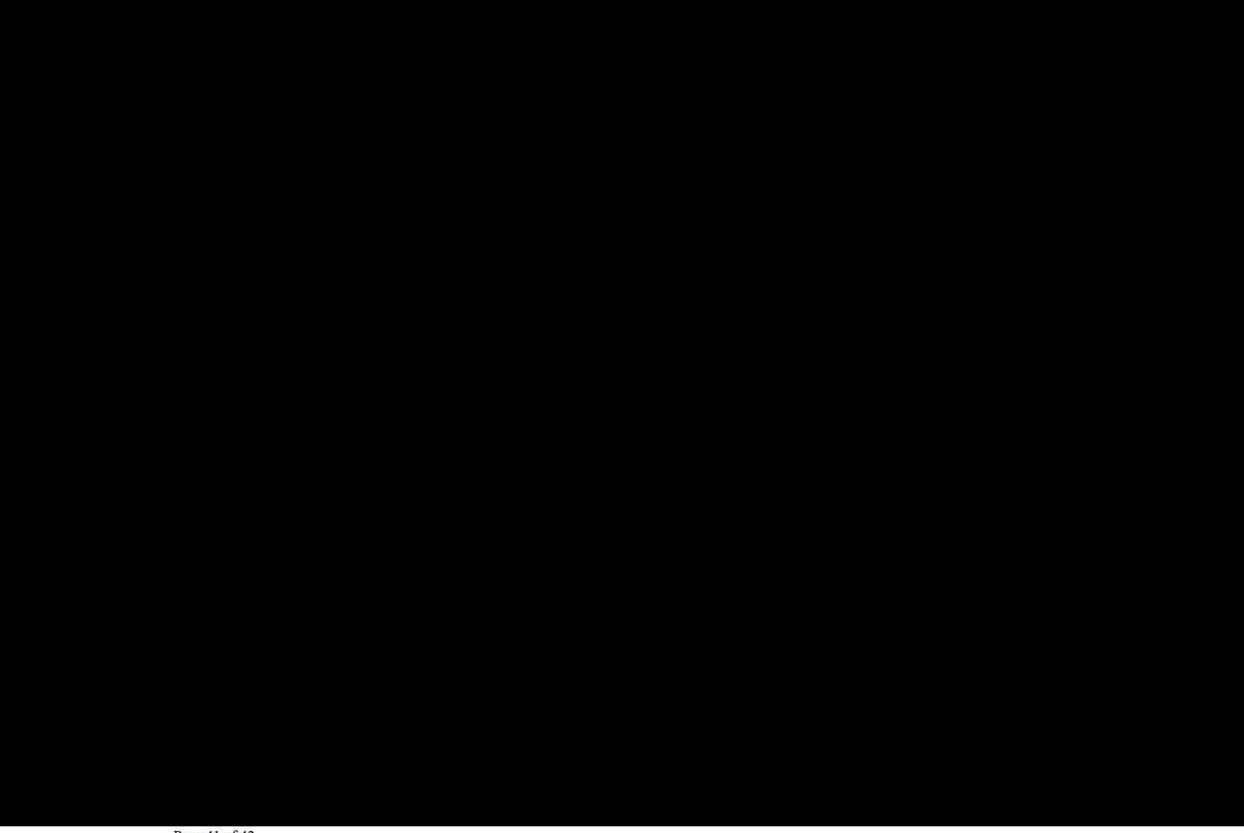


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