Received by OCD: 9/12/2022 11:00:08 AM

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report

09/12/2022

Well Name: LINDRITH UNIT	**Well Location:** T24N / R3W / SEC 21 / SWNW / 36.298599 / -107.168223	**County or Parish/State:** RIO ARRIBA / NM
Well Number: 29	**Type of Well:** CONVENTIONAL GAS WELL	**Allottee or Tribe Name:**
Lease Number: NMSF078913	**Unit or CA Name:** LINDRITH UNIT - PC	**Unit or CA Number:** NMNM78399A
US Well Number: 300390538800S1	**Well Status:** Abandoned	**Operator:** MORNINGSTAR OPERATING LLC

Subsequent Report

Sundry ID: 2691676

Type of Submission: Subsequent Report

Type of Action: Plug and Abandonment

Date Sundry Submitted: 09/09/2022

Time Sundry Submitted: 02:16

Date Operation Actually Began: 08/31/2022

Actual Procedure: MorningStar Operating LLC has plugged and abandoned the Lindrith Unit #29 as of 9/7/2022. Attached are the Daily Cementing Report, Final WBD, and CBL.

SR Attachments

Actual Procedure

Lindrith_Unit_29_PA_Daily_Cementing_Reports_20220909141509.pdf

CONFIDENTIAL

Released to Imaging: 9/22/2022 2:29:37 PM

Well Name: LINDRITH UNIT

Well Location: T24N / R3W / SEC 21 / SWNW / 36.298599 / -107.168223

County or Parish/State: RIO ARRIBA / NM

Well Number: 29

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMSF078913

Unit or CA Name: LINDRITH UNIT - PC

Unit or CA Number: NMNM78399A

US Well Number: 300390538800S1

Well Status: Abandoned

Operator: MORNINGSTAR OPERATING LLC

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: CONNIE BLAYLOCK

Signed on: SEP 09, 2022 02:15 PM

Name: MORNINGSTAR OPERATING LLC

Title: Regulatory Technician

Street Address: 400 W 7th St.

City: Forth Worth

State: TX

Phone: (817) 334-7882

Email address: CBLAYLOCK@MSPARTNERS.COM

Field

Representative Name: Amy Byars

Street Address:

City:

State:

Zip:

Phone:

Email address: abyars@mspartners.com

BLM Point of Contact

BLM POC Name: KENNETH G RENNICK

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647742

BLM POC Email Address: krennick@blm.gov

Disposition: Accepted

Disposition Date: 09/12/2022

Signature: Kenneth Rennick

Released to Imaging: 9/22/2022 2:29:37 PM

CONFIDENTIAL

Morningstar Operating LLC

Plug And Abandonment End Of Well Report

Lindrith Unit #029

1650' FNL & 800' FWL, Section 21, 24N, 03W

Rio Arriba County, NM / API 30-039-05388

Work Summary:

8/30/22 Made BLM and NMOCD P&A operations notifications at 9:00 AM MST.

8/31/22 MOL and R/U P&A rig. Checked well pressures: Tubing 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. N/D wellhead. N/U BOP and function tested. Pulled hanger and set slips. Secured and shut in well for the day.

9/1/22 Checked well pressures: Tubing 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. L/D 28 joints of 1-1/4" production string. P/U 5-1/2" casing scraper and 6' pup. Tallied in hole with 97 joints of 2-3/8" tubing to 3,073'. POOH and stood back 48 stands and L/D 1. Secured and shut in well for the day.

9/2/22 Checked well pressures: Tubing 0 psi, Casing: 0 psi, Bradenhead: 0 psi. TIH with 97 joints of 2-3/8" tubing and 5.5" CR. Set CR at 3,067'. R/U cementing services. Circulated 60 bbls of fresh water. Circulated to surface after 10 bbls to casing valve and Braden Head valve. L/D one joint and stood back 48 stands. R/U wireline services. RIH and logged CBL from 3,050' to surface. Decision was made to combine plugs #1 and #2. TIH with 97 joints and pumped plug #1 from 3,067' to approximately 2,497' to cover the Picture Cliff perforations, Kirtland formation top, and Ojo formation top. L/D 19 joints and TOOH. Shut in and secured well to WOC overnight.

9/6/22 Checked well pressures: Tubing: 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. TIH and tagged top of plug #1 at 2,510'. TOOH. R/U wireline and perforated at 1,603'. POOH and R/D wireline. P/U

5.5" packer. TIH to 1,550' made multiple attempts to set packer with no success. POOH w/ packer, L/D packer. P/U 5.5" CR. TIH and set CR at 1,550'. Attempted to establish injection rate, but cement pump had mechanical issues. Shut in and secured well for the night

9/7/22 Checked well pressures: Tubing: 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. R/U cementing services. Pumped plug #2 from 1,603' to 1,350' to cover the Nacimiento Formation top. Pumped 19 SX into CR and perforations and 24 SX above CR. TOOH. WOC 4 Hours. TIH and tagged top of plug #2 at 1,350'. TOOH. R/U wireline services. RIH and perforated at 192'. POOH. P/U CR and TIH. Set CR at 157'. R/U cementing services. Pumped plug #3 from 192' to surface to cover the casing shoe. Pumped 33 SX into CR and perforations at 192' and pumped 33 SX on top of CR to surface. Received good cement returns through Braden Head. POOH. N/D BOP and WH. Cut off WH and installed dry hole marker per NMOCD regulations. Tagged Cement at 10' inside production string and 34' inside surface casing. Topped off and filled cellar with 20 SX. R/D cementing services.

Plug Summary:

Plug #1: (Pictured Cliff Perforations. Pictured Cliffs, Kirtland, and Ojo Alamo formation top 3,067'-2,510', 58 Sacks Type III Cement)

Set CR at 3,067'. R/U cementing services. Circulated 60 bbls of fresh water. Circulated to surface after 10 bbls to casing valve and Braden Head valve. L/D one joint and stood back 48 stands. R/U wireline services. RIH and logged CBL from 3,050' to surface. Decision was made to combine plugs #1 and #2. TIH with 97 joints and pumped plug #1 from 3,067' to approximately 2,497' to cover the Picture Cliff perforations, Kirtland formation top, and Ojo formation top. WOC overnight. TIH and tagged top of plug #1 at 2,510'

Plug #2: (Nacimiento Formation Top 1,603'-1,350', 43 Sacks Type III Cement)

R/U wireline. RIH and perforated at 1,603'. POOH and R/D wireline. P/U 5.5" packer. TIH to 1,550' made multiple attempts to set packer with no success. POOH w/ packer, L/D packer. P/U 5.5" CR. TIH and set CR at 1,550'. Pumped plug #2 from 1,603' to 1,350' to cover the Nacimiento Formation top. Pumped 19 SX into CR and perforations and 24 SX above CR. TOOH. WOC 4 Hours. TIH and tagged top of plug #2 at 1,350'.

Plug #3: (Casing Shoe, 192' to Surface, 86 Sacks Type III Cement [20 Sacks for Top Off])

R/U wireline services. RIH and perforated at 192'. POOH. P/U CR and TIH. Set CR at 157'. R/U cementing services. Pumped plug #3 from 192' to surface to cover the casing shoe. Pumped 33 SX into CR and perforations at 192' and pumped 33 SX on top of CR to surface. Received good cement returns through Braden Head. POOH. N/D BOP and WH. Cut off WH and installed dry hole marker per NMOCD regulations. Tagged Cement at 10' inside production string and 34' inside surface casing. Topped off and filled cellar with 20 SX.

P & A Daily Report

Drake WELL SERVICE INC.

PO Box 538 Farmington, NM 87499 505.327.7301

Company:	Morningstar Operating
Well Name:	Lindrith Unit #029
API #:	30-039-05388
Date:	8/31/2022

WORK SUMMARY

MOL and R/U P&A rig. Checked well pressures (see pressures below). Bled down well. N/D wellhead. N/U BOP and function tested. Pulled hanger and set slips. Secured and shut in well for the day.

PLUG SUMMARY

Plug No			Plug Depth	Sacks of Cement Used
Plug 1		*To*		
Plug 2		*To*		
Plug 3		*To*		
Plug 4		*To*		
Plug 5		*To*		
Plug 6		*To*		
Plug 7		*To*		
Plug 8		*To*		
Plug 9		*To*		

BRIDGE PLUG/CEMENT RETAINER SUMMARY

Depth Set

WELL PRESSURES

Tubing	0 psi
Casing	0 psi
Bradenhead	0 psi

P & A Daily Report

Drake WELL SERVICE INC.

PO Box 538 Farmington, NM 87499 505.327.7301

Company:	Morningstar Operating
Well Name:	Lindrith Unit #029
API #:	30-039-05388
Date:	9/1/2022

WORK SUMMARY

Checked well pressures (see pressures below). Bled down well. L/D 28 joints of 1-1/4" production string. P/U 5-1/2" casing scraper and 6' pup. Tallied in hole with 97 joints of 2-3/8" tubing to 3,073'. POOH and stood back 48 stands and L/D 1. Secured and shut in well for the day.

PLUG SUMMARY

Plug No		Plug Depth	Sacks of Cement Used
Plug 1	*To*		
Plug 2	*To*		
Plug 3	*To*		
Plug 4	*To*		
Plug 5	*To*		
Plug 6	*To*		
Plug 7	*To*		
Plug 8	*To*		
Plug 9	*To*		

BRIDGE PLUG/CEMENT RETAINER SUMMARY

Depth Set

WELL PRESSURES

Tubing	0 psi
Casing	0 psi
Bradenhead	0 psi

P & A Daily Report

Drake WELL SERVICE INC.

PO Box 538 Farmington, NM 87499 505.327.7301

Company:	Morningstar Operating
Well Name:	Lindrith Unit #029
API #:	30-039-05388
Date:	9/2/2022

WORK SUMMARY

Checked well pressures (see pressures below). Bled down well. TIH with 97 joints of 2-3/8" tubing and 5.5" CR. Set CR at 3,067'. R/U cementing services. Circulated 60 bbls of fresh water. Circulated to surface after 10 bbls to casing valve and Braden Head valve. L/D one joint and stood back 48 stands. R/U wireline services. RIH and loogged CBL from 3,050' to surface. Decision was made to combine plugs #1 and #2. TIH with 97 joints and pumped plug #1 from 3,067' to approximately 2,497' to cover the Picture Cliff perforations, Kirtland formation top, and Ojo formation top. L/D 19 joints and TOOH. Shut in and secured well to WOC overnight.

PLUG SUMMARY

Plug No			Plug Depth	Sacks of Cement Used
Plug 1	3,067'	*To*	2,465'	58 SX Type III Cement
Plug 2		*To*		
Plug 3		*To*		
Plug 4		*To*		
Plug 5		*To*		
Plug 6		*To*		
Plug 7		*To*		
Plug 8		*To*		
Plug 9		*To*		

BRIDGE PLUG/CEMENT RETAINER SUMMARY

Depth Set
3,067'

WELL PRESSURES

Tubing	0 psi
Casing	0 psi
Bradenhead	0 psi

P & A Daily Report

Drake WELL SERVICE INC.

PO Box 538 Farmington, NM 87499 505.327.7301

Company:	Morningstar Operating
Well Name:	Lindrith Unit #029
API #:	30-039-05388
Date:	9/6/2022

WORK SUMMARY

Checked well pressures (see pressures below). Bled down well. TIH and tagged top of plug #1 at 2,510'. TOOH. R/U wireline and perforated at 1,603'. POOH and R/D wireline. P/U 5.5" packer. TIH to 1,550' made multiple attempts to set packer with no success. POOH w/ packer, L/D packer. P/U 5.5" CR. TIH and set CR at 1,550'. Attempted to establish injection rate, but cement pump had mechanical issues. Shut in and secured well for the night.

PLUG SUMMARY

Plug No			Plug Depth	Sacks of Cement Used
Plug 1	3,067'	*To*	2,510'	58 SX Type III Cement
Plug 2		*To*		
Plug 3		*To*		
Plug 4		*To*		
Plug 5		*To*		
Plug 6		*To*		
Plug 7		*To*		
Plug 8		*To*		
Plug 9		*To*		

BRIDGE PLUG/CEMENT RETAINER SUMMARY

Depth Set
3,067'
1,550'

WELL PRESSURES

Tubing	0 psi
Casing	0 psi
Bradenhead	0 psi

P & A Daily Report

Drake WELL SERVICE INC.

PO Box 538 Farmington, NM 87499 505.327.7301

Company:	Morningstar Operating
Well Name:	Lindrith Unit #029
API #:	30-039-05388
Date:	9/7/2022

WORK SUMMARY

Checked well pressures (see pressures below). Bled down well. R/U cementing services. Pumped plug #2 from 1,603' to 1,350' to cover the Nacimiento Formation top. Pumped 19 SX into CR and perforations and 24 SX above CR. TOOH. WOC 4 Hours. TIH and tagged top of plug #2 at 1,350'. TOOH. R/U wireline services. RIH and perforated at 192'. POOH. P/U CR and TIH. Set CR at 157'. R/U cementing services. Pumped plug #3 from 192' to surface to cover the casing shoe. Pumped 33 SX into CR and perforations at 192', and pumped 33 SX on top of CR to surface. Received good cement returns through Braden Head. POOH. N/D BOP and WH. Cut off WH and installed dry hole marker per NMOCD regulations. Tagged Cement at 10' inside production string and 34' inside surface casing. Topped off and filled cellar with 20 SX. R/D cementing services.

PLUG SUMMARY

Plug No			Plug Depth	Sacks of Cement Used
Plug 1	3,067'	*To*	2,510'	58 SX Type III Cement
Plug 2	1,603'	*To*	1,350	43 SX Type III Cement
Plug 3	192'	*To*	Surface	86 SX Type III Cement (20 SX for top off)
Plug 4		*To*		
Plug 5		*To*		
Plug 6		*To*		
Plug 7		*To*		
Plug 8		*To*		
Plug 9		*To*		

BRIDGE PLUG/CEMENT RETAINER SUMMARY

Depth Set
3,067'
1,550'
157'

WELL PRESSURES

Tubing	0 psi
Casing	0 psi
Bradenhead	0 psi

MorningStar Operating, LLC

P&A WBD

Prepared by: J. Ryza
Date: 09/09/2022

KB = 10'
GL = 7,004'
API# 30-039-05388

Spud Date: 04/04/1959
Date Completed: 04/29/1959

Lindrith Unit 29
Rio Arriba County, NM

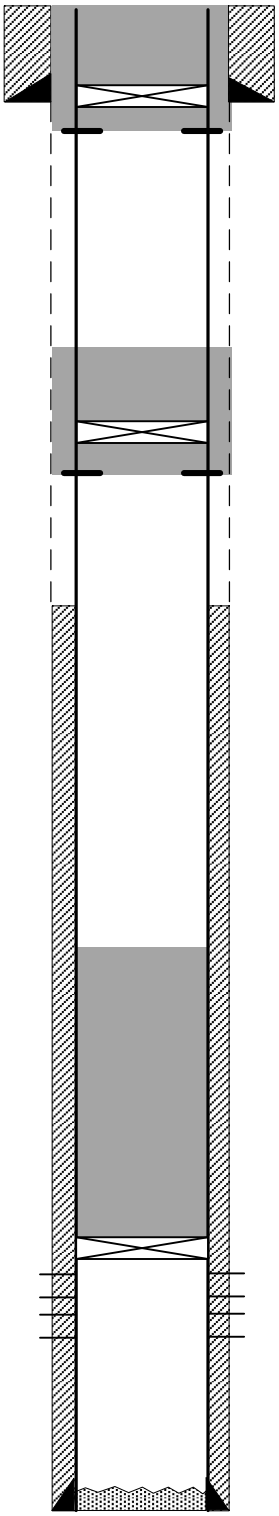
All depths include KB
TD – 3,187'; PBTD – 3,151'

Surface Csg: 4 jts 8-5/8" 32# J-55
Setting Depth: 142'

Cement
60 sx Cement
Cmt circulated

Production Csg: 77 jts 5-1/2" 15.5# J-55
Setting Depth: 3,181'

Cement:
72 sx cement



PLUG 3
Perf 5-½" casing at 192'
CICR @ 157'
86 sx cement 192' - surface

Nacimiento – 1,553'
Ojo Alamo – 2,633'
Kirtland – 2,799'
Fruitland – 2,951'
Picture Cliffs – 3,094'

PLUG 2 (Nacimiento)
Perf 5 ½" casing at 1,603'
CICR @ 1,550'
Pump 43 sx cement plug 1,350' – 1,603'

PLUG 1 (PC, Fruitland, Kirtland, Ojo)
58 sx cement 2,510' – 3,067'

CICR set @ 3,067'

Picture Cliffs Perfs (1959):

3,104' – 3,114' (4spf)
3,122' – 3,130' (4spf)
3,137' – 3,146' (4spf)

PBTD: 3,151'

Received by OCD: 9/12/2022 11:00:08 AM

BASIN WELL LOGGING
PERFORATING - WIRELINE SERVICES

CEMENT BOND LOG
CASING COLLARS
GAMMA RAY / VDL

Company	Morning Star
Well	Lyndryth Unit # 29
Field	PC
County	RIO ARRIBA
State	NEW MEXICO

Company Morning Star
Well Lyndryth Unit # 29
Field PC
County RIO ARRIBA State NEW MEXICO

Location: API #: 30-039-05388
SWNW , 1650' FNL & 800' FWL
SEC 21 TWP 24N RGE 03W

Other Services: PERF.

Permanent Datum	GROUND LEVEL	Elevation 7004'	Elevation
Log Measured From	KB 10'		K.B. 6994'
Drilling Measured From	KELLY BUSHING		D.F. 6994'
			G.L. 7004'

Date	9-2-22
Run Number	1
Depth Driller	
Depth Logger	3060'
Bottom Logged Interval	3060'
Top Log Interval	SURFACE
Open Hole Size	
Type Fluid	WATER
Density / Viscosity	
Max. Recorded Temp.	N/A
Estimated Cement Top	SEE LOG
Time Well Ready	11:30am
Time Logger on Bottom	11:50am
Equipment Number	121
Location	FARMINGTON NM
Recorded By	L.Pina
Witnessed By	Brad Dobbs

Borehole Record

Run Number	Bit	From	To

Tubing Record

Size	Weight	From	To

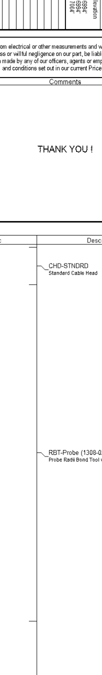
Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String				
Liner				

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

THANK YOU !



Sensor	Offset (ft)	Description	Length (ft)	O.D. (in)	Weight (lb)
		CHD-STNDRD Standard Cable Head	1.00	1.69	10.00
WVFS8	8.83	RBT-Probe (1308-02) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
WVFS7	8.83				
WVFS6	8.83				
WVFS5	8.83				
WVFS4	8.83				
WVFS3	8.83				
WVFS2	8.83				
WVFS1	8.83				
WVFCAL	8.83				
WVF3FT	8.83				
WVF5FT	7.75				
HEADVOLT	4.50				
CCL	3.75				
		GR275detector-Probe275Gr (110773) Probe 2.75" Dectector on Bottom	4.50	2.75	30.00
GR	0.90				

Dataset: lyndryth29cbl.db: field/well/run1/pass1.5
Total length: 14.42 ft
Total weight: 130.00 lb
O.D.: 2.75 in

Database File lyndryth29cbl.db
Dataset Pathname pass1.5
Presentation Format cbl_drs
Dataset Creation Fri Sep 02 11:44:53 2022
Charted by Depth in Feet scaled 1:240

340 TRAVEL TIME (usec) 240	0 AMP AMPLITUDE (mV) 20	200 VDL (usec) 1200
9 Collar Locator -1	0 AMPLITUDE (mV) 100	
0 Gamma Ray (GAPI) 200	200 PPT (usec) 275	

340 TRAVEL TIME (usec) 240	0 AMP AMPLITUDE (mV) 20	200 VDL (usec) 1200
9 Collar Locator -1	0 AMPLITUDE (mV) 100	
0 Gamma Ray (GAPI) 200	200 PPT (usec) 275	

Calibration Report

Database File lyndryth29cbl.db
Dataset Pathname pass1.5
Dataset Creation Fri Sep 02 11:44:53 2022

Gamma Ray Calibration Report

Serial Number:	110773	
Tool Model:	Probe275Gr	
Performed:	Mon Aug 02 00:29:29 2021	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	1308-02	
Tool Model:	Probe	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	955.075	ft

Master Calibration, performed Fri Sep 02 11:07:23 2022:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.003	1.440	0.650	71.921	49.586	0.510
CAL	1.807	1.480				
5'	0.006	1.286	0.650	71.921	55.699	0.299
SUM						
S1	-0.008	1.467	0.000	100.000	67.790	0.546
S2	0.003	1.447	0.000	100.000	69.278	-0.233
S3	0.002	1.483	0.000	100.000	67.531	-0.150
S4	0.001	1.444	0.000	100.000	69.329	-0.102
S5	0.001	1.473	0.000	100.000	67.916	-0.040
S6	0.002	1.433	0.000	100.000	69.872	-0.153
S7	0.001	1.469	0.000	100.000	68.125	-0.098
S8	0.001	1.459	0.000	100.000	68.600	-0.090

Internal Reference Calibration, performed Wed Oct 05 11:57:18 2016:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	1.807	1.480	1.000	0.000

Air Zero Calibration, performed Tue Nov 30 12:46:45 2021:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

Released to Imaging: 9/22/2022 2:29:37 PM

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 142371

CONDITIONS

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 142371
	Action Type: [C-103] Sub. Plugging (C-103P)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	None	9/21/2022