

GENERAL DATA																	
NAME		LICENSE #		API		EVENT		AFE #		AFE \$							
Crystal 10HN		TBD				Initial Completions		506060-21-01		\$0.00							
ELEVATIONS																	
GROUND		KB > GROUND		KB		CF > GROUND		CF		TH > GROUND		KB > TH		DH > GROUND		KB > DH	
6,176.00 ft		23.00 ft		6,199.00 ft		0.00 ft		6,176.00 ft		-		23.00 ft		-		23.00 ft	
PERFORATIONS																	
PERFORATION // 2022-07-25 // 8,543.00 ft to 8,738.00 ft																	
TYPE		TOP		BOTTOM		FORMATION				COMPANY / NOTE							
Wireline		8,543.00 ft		8,738.00 ft		NIO				Liberty Wireline							
GUN SIZE		SHOTS		SHOT TYPE		PHASING		CHARGE		EXP WT							
3.75 in		5.00 spf		Fluid		120 °		Deep		39.00 g				0.00 g			
PERFORATION // 2022-07-25 // 8,763.00 ft to 8,940.00 ft																	
TYPE		TOP		BOTTOM		FORMATION				COMPANY / NOTE							
Wireline		8,763.00 ft		8,940.00 ft		NIO				Liberty Wireline							
GUN SIZE		SHOTS		SHOT TYPE		PHASING		CHARGE		EXP WT							
3.75 in		5.00 spf		Fluid		120 °		Deep		39.00 g				0.00 g			
PERFORATION // 2022-07-25 // 8,963.00 ft to 9,138.00 ft																	
TYPE		TOP		BOTTOM		FORMATION				COMPANY / NOTE							
Wireline		8,963.00 ft		9,138.00 ft		NIO				Liberty Wireline							
GUN SIZE		SHOTS		SHOT TYPE		PHASING		CHARGE		EXP WT							
3.75 in		5.00 spf		Fluid		120 °		Deep		39.00 g				0.00 g			
PERFORATION // 2022-07-25 // 9,163.00 ft to 9,340.00 ft																	
TYPE		TOP		BOTTOM		FORMATION				COMPANY / NOTE							
Wireline		9,163.00 ft		9,340.00 ft		NIO				Liberty Wireline							
GUN SIZE		SHOTS		SHOT TYPE		PHASING		CHARGE		EXP WT							
3.75 in		5.00 spf		Fluid		120 °		Deep		39.00 g				0.00 g			
PERFORATION // 2022-07-25 // 9,363.00 ft to 9,538.00 ft																	
TYPE		TOP		BOTTOM		FORMATION				COMPANY / NOTE							
Wireline		9,363.00 ft		9,538.00 ft		NIO				Liberty Wireline							
GUN SIZE		SHOTS		SHOT TYPE		PHASING		CHARGE		EXP WT							
3.75 in		5.00 spf		Fluid		120 °		Deep		39.00 g				0.00 g			
PERFORATION // 2022-07-25 // 9,563.00 ft to 9,738.00 ft																	
TYPE		TOP		BOTTOM		FORMATION				COMPANY / NOTE							
Wireline		9,563.00 ft		9,738.00 ft		NIO				Liberty Wireline							
GUN SIZE		SHOTS		SHOT TYPE		PHASING		CHARGE		EXP WT							
3.75 in		5.00 spf		Fluid		120 °		Deep		39.00 g				0.00 g			
PERFORATION // 2022-07-24 // 9,763.00 ft to 9,938.00 ft																	
TYPE		TOP		BOTTOM		FORMATION				COMPANY / NOTE							
Wireline		9,763.00 ft		9,938.00 ft		NIO				Liberty Wireline							
GUN SIZE		SHOTS		SHOT TYPE		PHASING		CHARGE		EXP WT							
3.75 in		5.00 spf		Fluid		120 °		Deep		39.00 g				0.00 g			
PERFORATION // 2022-07-24 // 9,963.00 ft to 10,138.00 ft																	
TYPE		TOP		BOTTOM		FORMATION				COMPANY / NOTE							
Wireline		9,963.00 ft		10,138.00 ft		NIO				Liberty Wireline							
GUN SIZE		SHOTS		SHOT TYPE		PHASING		CHARGE		EXP WT							
3.75 in		5.00 spf		Fluid		120 °		Deep		39.00 g				0.00 g			
PERFORATION // 2022-07-24 // 10,163.00 ft to 10,338.00 ft																	
TYPE		TOP		BOTTOM		FORMATION				COMPANY / NOTE							
Wireline		10,163.00 ft		10,338.00 ft		NIO				Liberty Wireline							
GUN SIZE		SHOTS		SHOT TYPE		PHASING		CHARGE		EXP WT							
3.75 in		5.00 spf		Fluid		120 °		Deep		39.00 g				0.00 g			
PERFORATION // 2022-07-24 // 10,363.00 ft to 10,538.00 ft																	
TYPE		TOP		BOTTOM		FORMATION				COMPANY / NOTE							
Wireline		10,363.00 ft		10,538.00 ft		NIO				Liberty Wireline							
GUN SIZE		SHOTS		SHOT TYPE		PHASING		CHARGE		EXP WT							
3.75 in		5.00 spf		Fluid		120 °		Deep		39.00 g				0.00 g			
PERFORATION // 2022-07-24 // 10,563.00 ft to 10,738.00 ft																	
TYPE		TOP		BOTTOM		FORMATION				COMPANY / NOTE							
Wireline		10,563.00 ft		10,738.00 ft		NIO				Liberty Wireline							
GUN SIZE		SHOTS		SHOT TYPE		PHASING		CHARGE		EXP WT							
3.75 in		5.00 spf		Fluid		120 °		Deep		39.00 g				0.00 g			
PERFORATION // 2022-07-24 // 10,764.00 ft to 10,938.00 ft																	
TYPE		TOP		BOTTOM		FORMATION				COMPANY / NOTE							
Wireline		10,764.00 ft		10,938.00 ft		NIO				Liberty Wireline							
GUN SIZE		SHOTS		SHOT TYPE		PHASING		CHARGE		EXP WT							
3.75 in		5.00 spf		Fluid		120 °		Deep		39.00 g				0.00 g			
PERFORATION // 2022-07-24 // 10,963.00 ft to 11,138.00 ft																	
TYPE		TOP		BOTTOM		FORMATION				COMPANY / NOTE							
Wireline		10,963.00 ft		11,138.00 ft		NIO				Liberty Wireline							

GUN SIZE 3.75 in	SHOTS 5.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-24 // 11,163.00 ft to 11,338.00 ft						
TYPE Wireline	TOP 11,163.00 ft	BOTTOM 11,338.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 5.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-23 // 11,364.00 ft to 11,540.00 ft						
TYPE Wireline	TOP 11,364.00 ft	BOTTOM 11,540.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 5.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-23 // 11,563.00 ft to 11,738.00 ft						
TYPE Wireline	TOP 11,563.00 ft	BOTTOM 11,738.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 5.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-23 // 11,763.00 ft to 11,938.00 ft						
TYPE Wireline	TOP 11,763.00 ft	BOTTOM 11,938.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 5.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-23 // 11,963.00 ft to 12,138.00 ft						
TYPE Wireline	TOP 11,963.00 ft	BOTTOM 12,138.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 5.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-23 // 12,163.00 ft to 12,338.00 ft						
TYPE Wireline	TOP 12,163.00 ft	BOTTOM 12,338.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 5.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-23 // 12,363.00 ft to 12,538.00 ft						
TYPE Wireline	TOP 12,363.00 ft	BOTTOM 12,538.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 5.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-23 // 12,563.00 ft to 12,738.00 ft						
TYPE Wireline	TOP 12,563.00 ft	BOTTOM 12,738.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 5.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-22 // 12,765.00 ft to 12,938.00 ft						
TYPE Wireline	TOP 12,765.00 ft	BOTTOM 12,938.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 5.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-22 // 12,963.00 ft to 13,138.00 ft						
TYPE Wireline	TOP 12,963.00 ft	BOTTOM 13,138.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 4.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-22 // 13,164.00 ft to 13,338.00 ft						
TYPE Wireline	TOP 13,164.00 ft	BOTTOM 13,338.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 4.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-22 // 13,360.00 ft to 13,536.00 ft						
TYPE Wireline	TOP 13,360.00 ft	BOTTOM 13,536.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 4.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-22 // 13,563.00 ft to 13,738.00 ft						
TYPE Wireline	TOP 13,563.00 ft	BOTTOM 13,738.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 4.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-22 // 13,763.00 ft to 13,935.00 ft						
TYPE Wireline	TOP 13,763.00 ft	BOTTOM 13,935.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	

GUN SIZE 3.75 in	SHOTS 4.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-22 // 13,963.00 ft to 14,138.00 ft						
TYPE Wireline	TOP 13,963.00 ft	BOTTOM 14,138.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 4.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-21 // 14,163.00 ft to 14,338.00 ft						
TYPE Wireline	TOP 14,163.00 ft	BOTTOM 14,338.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 4.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-21 // 14,363.00 ft to 14,537.00 ft						
TYPE Wireline	TOP 14,363.00 ft	BOTTOM 14,537.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 4.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-21 // 14,563.00 ft to 14,737.00 ft						
TYPE Wireline	TOP 14,563.00 ft	BOTTOM 14,737.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 4.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-21 // 14,765.00 ft to 14,936.00 ft						
TYPE Wireline	TOP 14,765.00 ft	BOTTOM 14,936.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 4.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-21 // 14,963.00 ft to 15,136.00 ft						
TYPE Wireline	TOP 14,963.00 ft	BOTTOM 15,136.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 4.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-21 // 15,163.00 ft to 15,338.00 ft						
TYPE Wireline	TOP 15,163.00 ft	BOTTOM 15,338.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 4.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-21 // 15,363.00 ft to 15,538.00 ft						
TYPE Wireline	TOP 15,363.00 ft	BOTTOM 15,538.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 4.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-20 // 15,563.00 ft to 15,738.00 ft						
TYPE Wireline	TOP 15,563.00 ft	BOTTOM 15,738.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 5.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-20 // 15,763.00 ft to 15,938.00 ft						
TYPE Wireline	TOP 15,763.00 ft	BOTTOM 15,938.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 4.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-20 // 15,963.00 ft to 16,138.00 ft						
TYPE Wireline	TOP 15,963.00 ft	BOTTOM 16,138.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 5.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-20 // 16,163.00 ft to 16,338.00 ft						
TYPE Wireline	TOP 16,163.00 ft	BOTTOM 16,338.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 4.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-19 // 16,365.00 ft to 16,534.00 ft						
TYPE Wireline	TOP 16,365.00 ft	BOTTOM 16,534.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 4.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-19 // 16,563.00 ft to 16,738.00 ft						
TYPE Wireline	TOP 16,563.00 ft	BOTTOM 16,738.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	

GUN SIZE 3.75 in	SHOTS 4.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-19 // 16,763.00 ft to 16,938.00 ft						
TYPE Wireline	TOP 16,763.00 ft	BOTTOM 16,938.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 4.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-19 // 16,963.00 ft to 17,138.00 ft						
TYPE Wireline	TOP 16,963.00 ft	BOTTOM 17,138.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 5.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-19 // 17,163.00 ft to 17,338.00 ft						
TYPE Wireline	TOP 17,163.00 ft	BOTTOM 17,338.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 5.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-19 // 17,363.00 ft to 17,538.00 ft						
TYPE Wireline	TOP 17,363.00 ft	BOTTOM 17,538.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 5.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-18 // 17,563.00 ft to 17,738.00 ft						
TYPE Wireline	TOP 17,563.00 ft	BOTTOM 17,738.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 5.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-18 // 17,763.00 ft to 17,938.00 ft						
TYPE Wireline	TOP 17,763.00 ft	BOTTOM 17,938.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 5.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-18 // 17,963.00 ft to 18,138.00 ft						
TYPE Wireline	TOP 17,963.00 ft	BOTTOM 18,138.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 5.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-18 // 18,163.00 ft to 18,338.00 ft						
TYPE Wireline	TOP 18,163.00 ft	BOTTOM 18,338.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 5.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-17 // 18,363.00 ft to 18,538.00 ft						
TYPE Wireline	TOP 18,363.00 ft	BOTTOM 18,538.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 5.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-17 // 18,563.00 ft to 18,738.00 ft						
TYPE Wireline	TOP 18,563.00 ft	BOTTOM 18,738.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 5.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-17 // 18,763.00 ft to 18,938.00 ft						
TYPE Wireline	TOP 18,763.00 ft	BOTTOM 18,938.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 5.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-17 // 18,963.00 ft to 19,138.00 ft						
TYPE Wireline	TOP 18,963.00 ft	BOTTOM 19,138.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 5.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-17 // 19,163.00 ft to 19,338.00 ft						
TYPE Wireline	TOP 19,163.00 ft	BOTTOM 19,338.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 5.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-16 // 19,363.00 ft to 19,538.00 ft						
TYPE Wireline	TOP 19,363.00 ft	BOTTOM 19,538.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	



Perforations Report - Initial Completions
Crystal 10HN • #TBD

GUN SIZE 3.75 in	SHOTS 5.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-16 // 19,563.00 ft to 19,738.00 ft						
TYPE Wireline	TOP 19,563.00 ft	BOTTOM 19,738.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 5.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-16 // 19,763.00 ft to 19,938.00 ft						
TYPE TCP	TOP 19,763.00 ft	BOTTOM 19,938.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 5.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g
PERFORATION // 2022-07-16 // 19,981.00 ft to 20,275.00 ft						
TYPE TCP	TOP 19,981.00 ft	BOTTOM 20,275.00 ft	FORMATION NIO		COMPANY / NOTE Liberty Wireline	
GUN SIZE 3.75 in	SHOTS 5.00 spf	SHOT TYPE Fluid	PHASING 120 °	CHARGE Deep	EXP WT 39.00 g	0.00 g