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

Well Name: OUTRIDER 27 FED Well Location: T24S / R32E / SEC 28 / County or Parish/State: /

SWSE /

Well Number: 509H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM016353 Unit or CA Name: Unit or CA Number:

US Well Number: 3002550237 **Well Status:** Drilling Well **Operator:** XTO ENERGY

INCORPORATED

Notice of Intent

Sundry ID: 2700667

Type of Submission: Notice of Intent

Type of Action: Casing

Date Sundry Submitted: 10/31/2022 Time Sundry Submitted: 07:08

Date proposed operation will begin: 10/11/2022

Procedure Description: XTO Energy Inc respectfully requests approval to repair damaged 9-5/8 inch int. csg fr/1545ft – 1571ft (~26ft) by installing a 60ft casing patch from 1535-1595ft to ensure integrity. Due to the casing patch, the production hole size is being downgraded to 6-3/4" from 8-1/2". No changes to csg or cmt at this time. Operations to Date: 10/21/2022 CO well fr/1496'-1646'. Ran WL Sonic Image Log (attached), identifying casing damage fr/1545'-1570'. Proposed Plan: Install Csg Patch (see attached procedure), perform psi test down choke line to 1400 psi (80% internal patch psi w/9ppg BDE in hole). XTO Energy, Inc also respectfully requests to change the production hole as follows: Production Hole: Downsize hole to 6-3/4" from 8-1/2" Attachments: Outrider 27 FED 509H_2D Log 2022-10-21 Outrider 27 Fed 509H-Job Program_1

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

 $Outrider_27_Fed_509H_Patch_Job_Program_1_20221031190814.pdf$

Outrider_27_FED_509H_Sonic_Log_2022_10_21_20221031190754.pdf

Received by OCD: Well Radia 60 GRIDER M FED

Well Location: T24S / R32E / SEC 28 / County or Parish/State: /

SWSE /

Well Number: 509H

Type of Well: OIL WELL

Allottee or Tribe Name:

Page 2 of 24

Lease Number: NMNM016353

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002550237

Well Status: Drilling Well

Operator: XTO ENERGY INCORPORATED

Zip:

Conditions of Approval

Specialist Review

casing_patchsundry_20221104143543.pdf

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: JESSICA DOOLING Signed on: OCT 31, 2022 07:08 PM

Name: XTO ENERGY INCORPORATED

Title: Lead Regulatory Coordinator

Street Address: 6401 HOLIDAY HILL ROAD BLDG 5

City: MIDLAND State: TX

Phone: (970) 769-6048

Email address: JESSICA.DOOLING@EXXONMOBIL.COM

Field

Representative Name:

Street Address:

City: State:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234 BLM POC Email Address: cwalls@blm.gov

Disposition: Approved **Disposition Date:** 11/04/2022

Signature: Chris Walls

Page 2 of 2

API# 30-025-50237 Outrider 27 Fed 509H Conditions of Approval

- 1. Pressure test casing patch to Onshore Order #2 III.B.1.h. If it bleeds off more than 10 percent notify the BLM Engineer (575-234-5972).
- a) Notify the inspector at least 24 hours before the test: In Lea County call 575-689-5981.
- b) Submit a subsequent Sundry Form 3160-5 relating the CIT activity. Include a copy of the recorded MIT pressure chart. List the name of the BLM witness, or the notified person and date of notification.

CRW 11/04/2022





EXPANDABLE STEEL PATCH JOB PROGRAM

COMPANY WELL NUMBER WELL TYPE

LOCATION

XTO
Delaware - Outrider 27 Fed 509H

Shale Gas/Oil Lea co, NM

www.saltel-industries.com

AUTHOR

Created by Phone

Jorge Canelon

E-mail

JCanelon3@slb.com +1 432 701 2747

Date

10/19/2022

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Date Author Reference							
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EXPANDABLE STEEL PATCH - JOB PROGRAM

Table of contents

1	SC	COPE	3
2		/ELL CHARACTERISTICS AND CONDITIONS	
3	P	ATCH CHARACTERISTICS	
	3.1	Patch RIH characteristics	
	3.2	Geometry when set	
	3.3	Service pressures	4
4	D	OWN HOLE EXPANSION TOOL (DHET)	5
5	IT	EMS TO BE SUPPLIED LOCALLY	6
6	W	/ELL PREPARATION AND TUBING / DRILL PIPE CONDITION	7
7	P	ATCH SETTING	8
	7.1	Rig up and first pressure test	8
	7.2	Run in hole (RIH)	8
	7.3	Pressure tests	8
	7.4	Cellar check (rat hole/sump) and weights check	9
	7.5	Positioning	9
	7.6	Weight monitoring	10
	7.7	Setting pressure	10
	7.8	1st Step: Patch anchoring	11
	7.9	2 nd step	11
	7.10	Intermediary steps	11
	7.11	Bottom steps	12
	7.12	Pull Out Of Hole (POOH) and Rig down	12
8	A	PPENDIXES	12
	8.1	APPENDIX1: Well schematic	13
	8.2	APPENDIX2: BHA	14
9	RI	EVISION HISTORY	15

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1 SCOPE

This document presents the operation program for setting a Saltel Expandable Steel Patch in a Shale Gas/Oil well, located in Lea co, NM.

The objective of this casing patch operation is to cover a 9 5/8" Parted Casing

The proposed solution is a Standard Patch - 59.1ft - 9-5/8" SlimLine.

2 WELL CHARACTERISTICS AND CONDITIONS

COMPANY	XTO
WELL	Dolowara Outriday 27 Fod F00H
NUMBER	Delaware - Outrider 27 Fed 509H
WELL TYPE	Shale Gas/Oil
LOCATION	Lea co, NM
APPLICATION	Parted Casing Repair

ZONE TO BE SEALED

Size of impairment 7620mm - 300in
Interval will be cemented ? No

N/A	mm	N/A	In	Minimum Restriction to Go Through
Cased Hole				
9.625 - 40	in			
lb/ft	111			
224.4	mm	8.835	in	ID Nominal
220.4	mm	8.679	in	ID Drift
470.9	m	1544.9	ft	Top of the zone to be sealed MD
478.5	m	1569.9	ft	Bottom of the zone to be sealed MD
7.6	m	24.9	ft	Zone to be sealed Length
27	°C	81	°F	Down Hole Setting Temperature

OTHER

Max Dogleg: 0°/30m

Deviation at setting depth: 0°

Minimum RIH depth must be: 1647ft (502.1m)

• Expected H₂S / CO₂: None Anticipated

• Estimated Reservoir Pressure: None Anticipated

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3 PATCH CHARACTERISTICS

3.1 Patch RIH characteristics

Standard		Patch Model		
9-5/8" SlimLine		Patch Size		
200	mm	7.874	in	Patch Running OD
18	m	59.01	ft	Patch Length
194	mm	7.638	in	Patch Steel tube OD before setting
5.1	mm	0.201	in	Steel Thickness
3	mm	0.118	in	Elastomer Thickness
8.1	mm	0.319	in	Patch Thickness before setting

3.2 Geometry when set

CLIENT-SPECIFIC REQUIREMENT:

8 mm 203.2 in Required Patch ID after Setting

PATCH GEOMETRY:

209.23	mm	8.237	in	Patch ID (Nominal)
205.1	mm	8.075	in	Patch ID (Drift)
17.0%	MAX	14.8%	min	Patch Expansion Ratio
7.09 - 7.17	mm	0.279 - 0.282	in	Patch Thickness (Nominal - Drift)
4.7 - 4.75	mm	0.185 - 0.187	in	Steel Thickness (Nominal - Drift)
2.39 - 2.41	mm	0.094 - 0.095	in	Elastomer Thickness (Nominal - Drift)

The patch nominal and drift IDs are calculated as casing IDs minus patch thickness. <u>If the casing drift ID is not guaranteed</u>, there is no guarantee on the patch drift ID.

The expansion process of a patch is from top to bottom. During the setting, the patch will be real-time drifted using a gauge ring installed on the setting tool. The size of the gauge ring is 204.47mm (8.05in)

3.3 Service pressures

CLIENT-SPECIFIC REQUIREMENTS:

27	°C	80	°F	Maximum Temperature	Operating
207	bar	3000	psi	Internal Service Pre	ssure
24	bar	350	psi	External Service Pre	essure

PATCH DIFFERENTIAL SERVICE PRESSURE RATING:

27	°C	81	°F	Down Hole Operating Temperature
198	bar	2870	psi	Internal DSPR
20	bar	290	psi	External DSPR

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Released to Imaging: 11/8/2022 9:34:57 AM

Values generated using steel batch: 194x5 - 321 - HN 240123 - MPP

4 DOWN HOLE EXPANSION TOOL (DHET)

The DHET hydraulically expands the patch by using an inflatable packer. The pressure is applied from the surface to the DHET through the Tubing / Drill Pipe string.

MODULE 1

Mechanical Weak Point (MWP): in case of stuck tool, a 32 tons (71 Klb)overpull is required to shear the pins, leaving the tool down-hole with a standard fishing profile (GS 3.5in).

MODULE 2

Filter : 200 μm

Piston Switch (PS): ensures that the packer will deflate (between expansion steps) in a dry well or when well fluid density is lower than the string fluid density.

When pressure is applied, a spring is compressed and the piston switches to an open position to create communication between the string and the expansion packer. When pressure is decreased, the piston returns to its initial position and opens communication between the packer and the well.

Mechanical Bleed Off (MBO): activated by applying over pull 16 tons (36 Klb) on the string. The MBO rupture causes immediate packer deflation.

MODULE 3

Gauge ring: drifts the patch during setting.

Test Valve: Pressure rupture disk that permits to pressure test the work string integrity after rig-up, at intermediate depths, and prior to starting the expansion process. It also allows to put pressure in the packer during RIH to hold the patch (during RIH the packer is a closed system). Test Valve will burst at 275 bar (3990 psi) (+/-10%).

Inflatable Packer: also called expansion packer, it hydraulically expands the patch in successive steps (top to bottom)

Pressure Bleed Off (PBO): alternative to the MBO system, this high-pressure rupture disk causes immediate packer deflation (not used here).

Packer Bypass: a hydraulic communication between top and bottom of the packer, to balance the pressures above and below the inflation zone.

Patch Holder Locator: tapered bottom entry guide, it is also a safety device which holds the Patch if the packer accidentally deflates during RIH. It collapses (spring system) with 1-2 kdaN overpull. It also permits to locate precisely Patch bottom. Weak point (release) = 7 tons | 15klb

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Note 1: The BHA is a closed- end system, it is NOT possible to circulate through it during rig-up - RIH - Setting - POOH.

However, a circulating sub (not provided by Saltel) can be added above top of the BHA.

If a circulating sub is required, it should to be compatible with Patch setting process and run closed. If open during RIH, depending on fluids in the well (not filtered, mud,..) it will be required either to circulate clean fluid before closing it or to POOH to redress the BHA.

Most common circ. subs / unloaders:

- Rotational valve + Drag body
- Bar Drop Circulating Sub (vertical only + one shot)
- Fill sub (circulation of clean fluid before closing the sub)

Pressure Activated subs should not be used, such as:

- A Ball Drop sub, sliding a sleeve (e.g. a PBL)
- A Drain valve (burst disk)

Note 2: the shear pins rupture values of MWP and MBO are slightly influenced by pressure in the tool (decrease of 1T with 300bar internal differential pressure, or 1klbs for 2000psi).

Note 3: depth control is not included in the DHET

5 ITEMS TO BE SUPPLIED LOCALLY

- X-over to connect Tubing/ drill pipe to the BHA (top of Module 1 is 2-3/8" EUE box)
- Pup joints to connect a marker joint above the BHA and for adjusting stick up (space out) for the setting.
- Fluid (water) to top fill the Tubing / drill pipe

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6 WELL PREPARATION AND TUBING / DRILL PIPE CONDITION

The well will be full and killed during the operation.

Well Clean-Out and drift ID check

- The Patch has a given thickness, any reduction in the borehole ID will lead to a corresponding reduction in the Patch ID.
- If possible, the well should be circulated to remove debris and solids.
- Common clean-out consists in running a scrapper and a casing drift (8.679 in) on the zone to repair and below (from 1496ft to 1646ft). Driller will look for any tight spot / dragging and handover to Saltel supervisor.
 - A cellar (rat-hole/sump) check will be performed prior to the first step, to ensure the Patch Holder and connecting rod assembly can freely reach its maximum calculated depth.
 - o If a scrapper cannot be run, other options should be considered (brush, jet blaster,...).
 - If the well ID cannot be confirmed by a drift, it would be beneficial to run a Multi-Finger Caliper across the zone prior to setting the patch, in order to guarantee the drift ID of the Casing and also to check the integrity and geometry of the zone to seal. Note that the caliper log should be processed and reviewed before the patch rig-up.

Tubing/Drill-Pipe condition:

The conveyance string must be rated to the maximum anticipated pressure (Cf Chapter 7.7)

In order to avoid plugging the filters in the DHET:

- The fluid used inside the tubing needs to be filtered (the filters mesh inside the tool is 200μm)
- Do not put too much thread dope, apply grease only on pin
- The conveyance string (Tubing/Drill-Pipe) needs to be clean and inspected before rig-up:
 - o Reports on previous Tubing/Drill-Pipe runs should be provided to Saltel Industries (reverse circulation, ...).
 - o A cleanout (e.g. jet blasting) of the inside of each tubing joint at surface is recommended.
 - A first run (tubing or DP string run in hole with a bullnose at the bottom and pressurized at maximum anticipated pressure) could also be done: it will remove scale/cement... from the running string ID and prove its hydraulic integrity.

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7 PATCH SETTING

7.1 Rig up and first pressure test

The 18m - 59.1ft patch length will be rigged up in one piece along with Saltel Industries setting tool. The rig up phases are as follows:

- 1. Before lifting, slide Module 3 inside the patch and inflate expansion packer to 15bar (220psi)
- 2. P/U Patch and M3 assembly with winch line
- 3. Lower assembly through BOP stack/Rotary Table, install the C-plate (*) and sit assembly on rotary table or BOP/Top of riser. **DO NOT SET SLIPS ON THE PATCH**.
- 4. Lift module 2 with winch line and M/U with M3
- 5. Lift assembly with winch line and move C-plate to M2. Sit assembly on rotary or BOP.
- 6. M/U Module 1 with stinger filter to Module 2.
- 7. M/U X-over to M1 as required tighten with tongues.
- 8. P/U first joint of work string and M/U with assembly.
- 9. P/U to remove C-plate, RIH to lower patch below BOP and set slips.
- 10. Fill up the pipe with fresh water and conduct first pressure test of BHA (see next chapter).

(*) C-Plate is 400mm OD (15.75in). Rig to provide additional C-plate or other equipment for rig up/rig down if required.

7.2 Run in hole (RIH)

Saltel Supervisor will witness beginning of the Run-In-Hole. It is important that the driller do smooth starts and stops.

The limitations below should be respected all time during RIH:

15	m/min	50	ft/min	Max RIH Speed
500	kg	1000	lb	Max RIH Set Down Weight

7.3 Pressure tests

During pressure test and expansion steps, access to the test zone will be restricted to Saltel Personnel

- A first pressure test is conducted once BHA is fully made up and torqued to conveyance string to check the sealing integrity of the first connections before running in. All additional sub (e. g. a circ. sub or a marker pup joint) above the DHET should be connected before performing the pressure test, which can be done with a few joints in hole.
- An intermediary pressure test should be conducted at mid depth if setting depth >1000m.
- A final pressure test will be conducted at setting depth prior to set the patch.
- Perform pressure test at 192 bar / 2784 psi for 2min. Do not exceed this value. Monitor weight indicator.

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7.4 Cellar check (rat hole/sump) and weights check

The cellar will be checked before performing the first step. When at the target depth to set the patch, mark the pipe and run in hole 18.05m - 59.2ft below setting depth. Mark every meter on the pipe. Record "Down weight", and check for enough cellar to set and drift the patch. Pull back up to expected patch setting depth. Record the "Up weight". Note the "Transition Length", distance required to move the pipe from "Down weight" to "Up weight".

Before anchoring the patch (at zero reference), at least 18.05m - 59.2ft of drill pipe must be sticking up above the rig floor, in order to conduct the whole setting process without having to disconnect the injection head and pick up another joint (use pup joints if need be).

7.5 Positioning

Responsibility

Depth control is not included in the Saltel tools, the operator is responsible for correct patch positioning. Options for positioning will vary with well conditions, but it is highly recommended to locate the patch on depth with Gamma Ray / CCL through the Tubing / drill pipe.

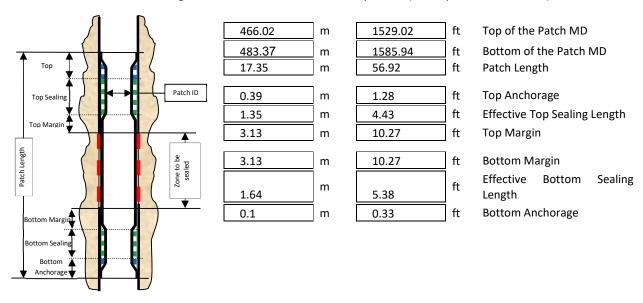
Saltel supervisor will double-check positioning, so the operator will provide:

- Tubing / drill pipe Tally (whatever the positioning method)
- KB measurements (initial + service rig)
- If a depth correlation is performed and depending on the method, a depth reference log / the completion
 Tally

Target depth

At depth the BHA will be positioned taking into account:

- a. The expected elongation of the Tubing/drill pipe with the inflation pressure
- b. The shortening of the Patch from the bottom upwards (the top is anchored first)



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7.6 Weight monitoring

The Patch will be set in successive packer inflations applied in conveyance string from surface.

During a pressure cycle, the packer is anchored to the patch / casing and the string will stretch under pressure applying compression on the tools. The opposite happens during deflation.

Hence, during inflation/deflation driller will be asked to pick-up / slack-off to maintain same weight downhole, thus avoid over loading the packer and compensate for the string elongation.

7.7 Setting pressure

The pressure given below are calculated with a differential hydrostatic of: -4 bar / -56 psi

- A conveyance string filled with 1 s.g. (8.35 ppg) fluid (filtered at 200μm)
- A well full with 1.08 s.g. (9.01 ppg) fluid, and no WHP
- A downhole temperature of 27 °C-80°F during the setting.
- Values generated using steel batch: 194x5 321 HN 205100 SIO10001-10004

Surface/		Surface/		
Downhole	_	Downhole	_	
258 / 254	bar	3745 / 3689	psi	Pressure Patch in Contact
283 / 279	bar	4107 / 4052	psi	Pressure Patch in front of perforation
358 / 354	bar	5195 / 5140	psi	Pressure to Seal the Patch
358 / 354	bar	5195 / 5140	psi	Pressure to Anchor the Patch
358 / 354	bar	5195 / 5140	psi	Over Pressure

Note that the max anticipated pressure ("Over Pressure") will be used only in case of contingency (if a restriction is observed in the patch internal diameter during setting).

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7.8 1st Step: Patch anchoring

Note: for one-shift operations, anchoring should be performed only if the remaining time-window permits to perform at least three steps.

- a) Perform pressure test at setting depth
- b) Increase Tubing / drill pipe pressure to anchoring pressure (see value in previous table)
- c) If required, pick up progressively as per Saltel instructions
- d) Hold pressure for 2 min
- e) Under pressure, run in hole and set down weight to confirm anchoring (Max: 2000 lbs)
- f) Bleed off slowly and slack off progressively as per Saltel instructions







Patch anchoring

7.9 2nd step

- a) RIH then pick up a few centimeters above ZERO ref to expand the top lip of the patch
- b) Repeat inflation/bleed-off sequence at 'front of perforation' pressure as per Saltel instructions.

7.10 Intermediary steps

- a) RIH of step length.
- b) Repeat inflation / deflation sequences with the following pressures:
- In front of central pipe: 'front of perforation' pressure for 1 min
- In front of sealing extremities: sealing pressure for 2 min







Intermediary step

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Page 11/15

7.11 Bottom steps

a) Perform 5 short steps at 'front of perforation' pressure to expand patch bottom

23 stages total are expected to complete the expansion of the patch.

- b) RIH (at least 2m from last step) to ensure that the bottom of the patch is fully expanded against the casing wall
- c) Slowly pick up to ZERO ref.

7.12 Pull Out Of Hole (POOH) and Rig down

- a) Monitor weight while POOH. Slow down when passing well restrictions
- b) It is recommended also to fill the well annulus while POOH to avoid any variation of the hydrostatic pressure.
- c) Rig down setting BHA

Note: the DHET is a closed-end system. To drain the tubing / drill pipe during POOH, the options are:

- 1) Pull out of hole wet (mud-canning)
- 2) Swab
- 3) If present above the BHA, open a circ. sub
- 4) If present above the BHA, open a wireline shiftable sliding sleeve
- 5) Punch a hole in the tubing / drill pipe

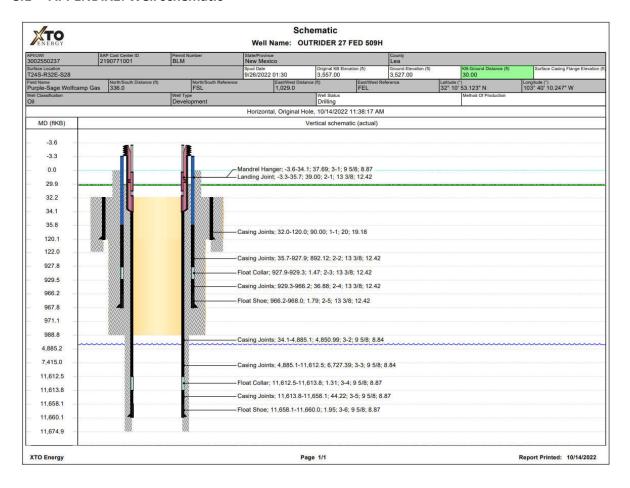
8 APPENDIXES

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8.1 APPENDIX1: Well schematic



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8.2 APPENDIX2: BHA

S	saltel industries			Si		ttom Hole A atch - 59.1ft	ssembly - 9-5/8" SlimLi	ine		
Custome	TE VALUE VAL	Patch Le	ength =	59.1	ft -	18.00	m			
Well No	.: Outrider 27 Fed 509H	Date:								
ВНА	DESCRIPTION	Thread c	onnection	LENGTH (feet)	Cumul length from Top of Patch (feet)	Cumul length from bottom of BHA (feet)	Target Depth (top)	Tensile Yield strength (klb)	Weight (lb)	MAX OD
		152			9.11	68.92	1,519.68	74		
					9.11	68.92	1,519.68	64		
				(-)	9.11	68.92	1,519.68	45		
-	+			(<u>-</u>	9.11	68.92	1,519.68	45		
-				-	9.11	68.92	1,519.68	45		
-		1-		-	9.11	68.92	1,519.68	45		
		-1		47.4 10 E	3.11	00.92	1,515.00	45		
				-	9.11	68.92	1,519.68	62		
					9.11	68.92	1,519.68	45		
				-	9.11	68.92	1,519.68	64		
				(#)	9.11	68.92	1,519.68	103		
	Module 1 Module 1 - 3.4in - TU - 2-3/8" EUE BHA Mechanical weak point = 32 tons - 70.6 klb Fishing profile 3.5in GS internal	2-3/8" EUE BOX	3in-8TPI SA pin	2.09	9.11	68.92	1,519.68	141	68	3.40
	Module 2 Module 2 - 3.3in Mechanical bleed off = 16.3 tons - 35.8 klb	3in-8TPISA box	3in-8TPI SA box	5.26	7.02	66.83	1,521.77	141	117	3.30
	Top of Module 3 - 60mm	3in-8TPI SA pin	XXmm-8TPI SA pin	1.76	1.76	61.57	1,527.04	141	11	3.40
-	TOP OF PATCH - Standard Patch - 59.1	ift - 9-5/8" Si		-	4	59.81	1,528.80			
	Mandrel Module 3 - 60mm		XXmm-8TPI SA pin	TOP OF	PATCH V	VHEN SET	1,529.02	48	377	
	Inflatable Expansion Packer 6.75in Patch weight = 459 Kg - 1013 Lb	XXmm-8TPI SA pin	XXmm-8TPI SA box	6.07			1,534.87	529	1013	8.05
	Connecting pipe adaptor 2x Connecting pipe 3m 1x Connecting pipe 2m 1x Connecting pipe 1m	1,5in-12TPI SA pin	1.5in-12TPI SA box	52.98			1,587.85	35	99	1.90
·				воттом	OF PATCH	WHEN SET	1 1100000000000000000000000000000000000			
	BOTTOM OF PATCH	1 Sin 10701			ļ.		1,587.85			
Æ	Patch Holder PHL 9in5/8 Mechanical weak point: 7 tons - 15.5 klb Keys collapse between 1 and 2 tons	1.5in-12TPI SA pin		0.75				35	57	7.64 7.07 (collapsed)
D:	Fishing profile 2.5in GS internal END OF TOOL						1,588.61			(

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Date	Author	Reference	
28-oct22	Sam Mouget	New fluid weight, new patch lenght	
0 2 4 5 5 4 3 5		©2018 Schlumberger. All rights reserved	

9 REVISION HISTORY

Current version

Date	Author	Reference
28-oct22	Sam Mouget	New fluid weight, new patch lenght

Previous versions

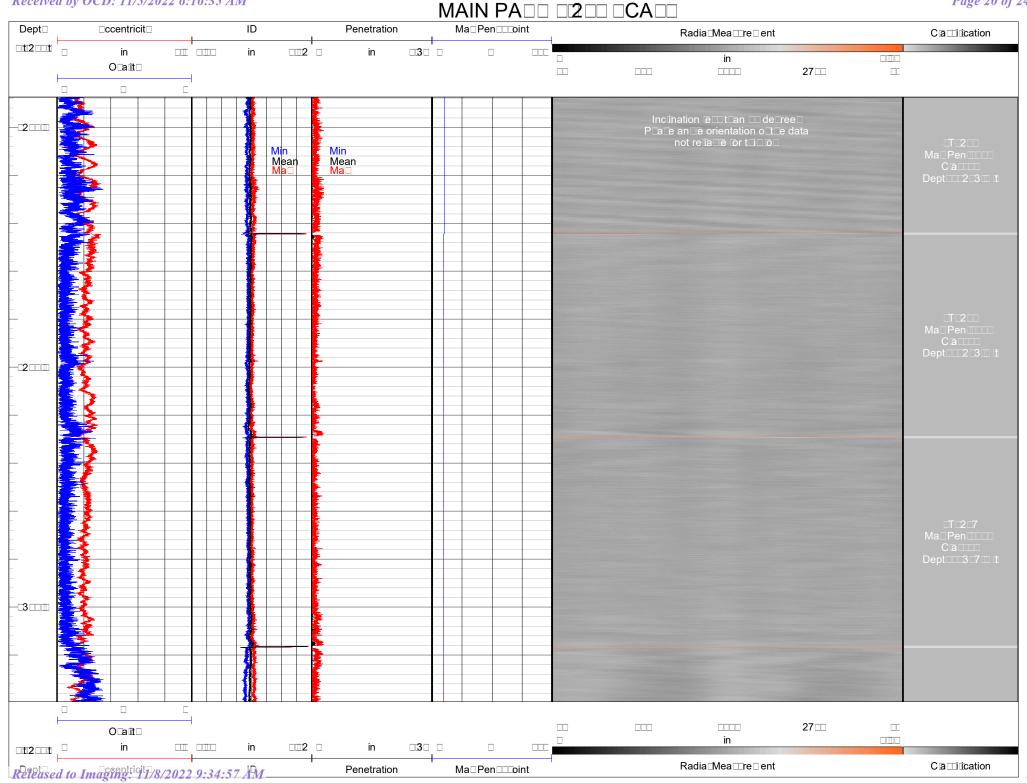
Date	Author	Version	Modifications
19-Oct-2022	Jorge Canelon	Outrider 27 Fed 509H	19-Oct-2022

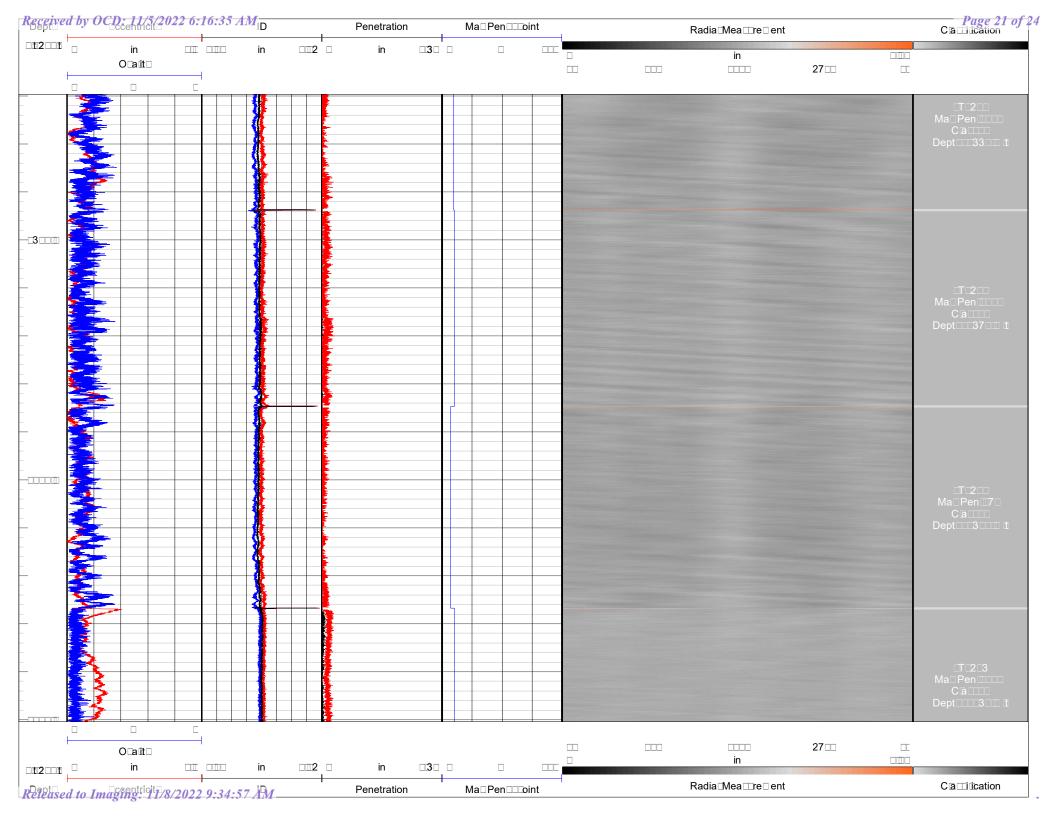


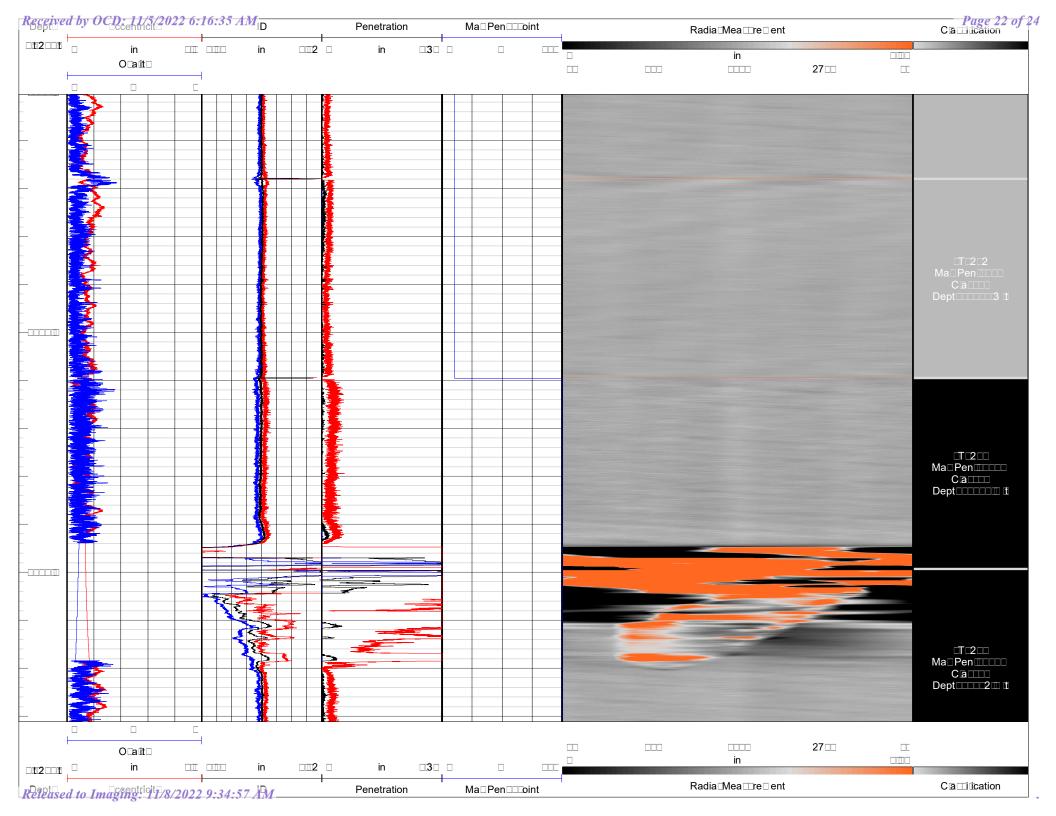
	SLB-Private
Author	Reference
Sam Mouget	New fluid weight, new patch lenght
	Author

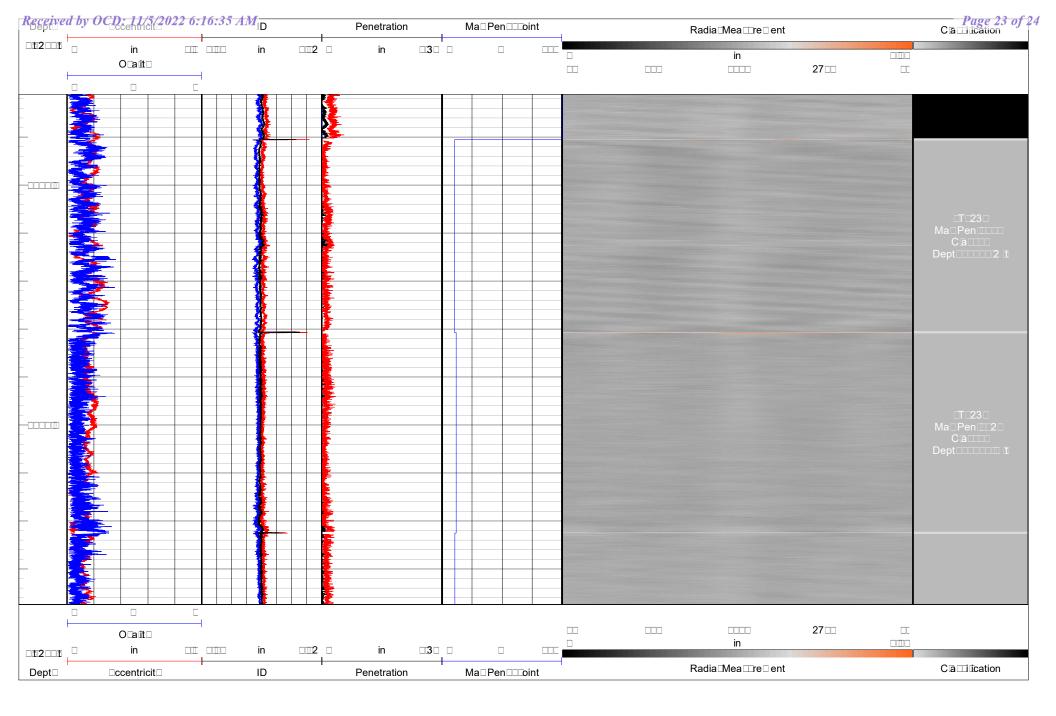
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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 156417

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	156417
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By		Condition Date
pkautz	None	11/8/2022