

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

Sundry Print Report

Well Name: NASH UNIT Well Location: T23S / R29E / SEC 13 / County or Parish/State: EDDY /

SESW /

Well Number: 38 Type of Well: OIL WELL Allottee or Tribe Name:

**Unit or CA Number:** Lease Number: NMNM0556859 Unit or CA Name: NASH DRAW -

**DELAWARE** NMNM70992C

**US Well Number: 3001529737** Well Status: Producing Oil Well **Operator:** XTO ENERGY

**INCORPORATED** 

Accepted for record – NMOCD gc 8/30/2022

## **Notice of Intent**

**Sundry ID: 2688006** 

Type of Submission: Notice of Intent Type of Action: Plug and Abandonment

**Date Sundry Submitted:** 08/18/2022 Time Sundry Submitted: 08:39

Date proposed operation will begin: 09/19/2022

Procedure Description: XTO Energy Inc Respectfully submits a NOI to PA the well above with the procedure attached

to this sundry.

## **Surface Disturbance**

Is any additional surface disturbance proposed?: No

## **NOI Attachments**

#### **Procedure Description**

Nash\_Unit\_038\_Proposed\_WBD\_20220818083830.pdf

Nash\_Unit\_038\_DHWP\_20220818083817.pdf

Nash Unit 038 Procedure 20220818083758.pdf

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Well Location: T23S / R29E / SEC 13 /

SESW /

County or Parish/State: EDD Page

NM

Zip:

Well Number: 38

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# **Conditions of Approval**

#### **Specialist Review**

NASH\_UNIT\_38\_\_\_2688006\_\_\_COA\_AND\_PROCEDURE\_20220825155828.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: CASSIE EVANS Signed on: AUG 18, 2022 08:39 AM

Name: XTO ENERGY INCORPORATED

**Title:** Regulatory Analyst

Street Address: 6401 Holiday Hill Road, Bldg 5

City: Midland State: TX

Phone: (432) 218-3671

Email address: CASSIE.EVANS@EXXONMOBIL.COM

#### Field

Representative Name:

Street Address:

City: State:

Phone:

**Email address:** 

## **BLM Point of Contact**

BLM POC Name: KEITH P IMMATTY BLM POC Title: ENGINEER

BLM POC Phone: 5759884722 BLM POC Email Address: KIMMATTY@BLM.GOV

**Disposition:** Approved **Disposition Date:** 08/25/2022

## PLUG AND ABANDON WELLBORE NASH UNIT 038 EDDY COUNTY, NEW MEXICO Class I

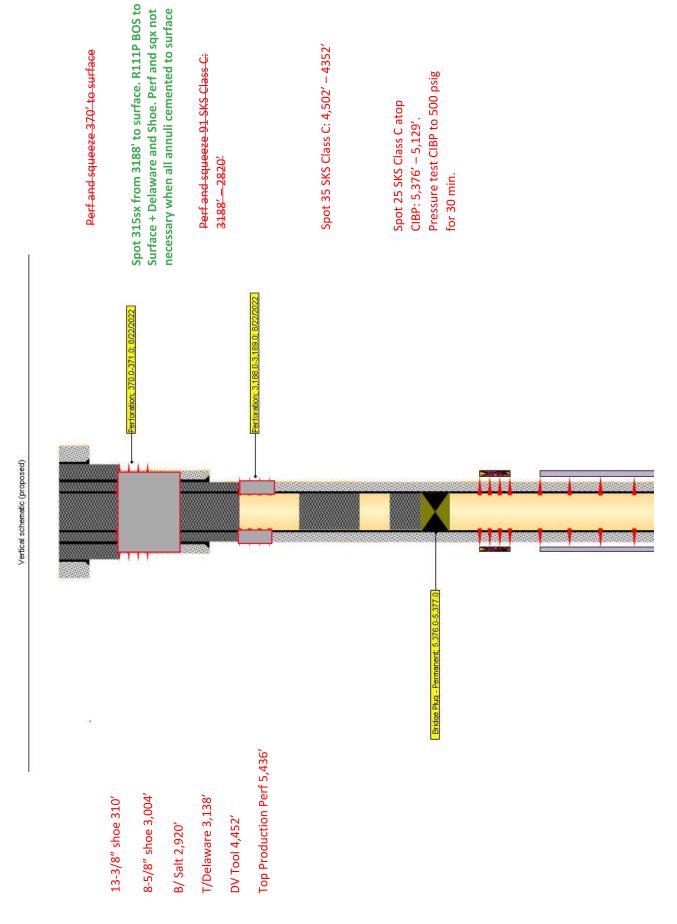
MASIP	MAOP	MAWP	Surface Csg Yield
1,000 psi	1,000 psi	3,000 psi	1,730 psi

**SUMMARY:** Plug and abandon wellbore according to BLM regulations.

- 1) MIRU plugging company. Set open top steel pit for plugging.
- 2) ND WH and NU 3K manual BOP. Function test BOP.
- 3) RIH 2-7/8" tbg and retrieving head for 4.65" KLX WLTC RBP.
- 4) Unset RBP at 3120', taking care to account for possible trapped pressure below RBP.
- 5) POOH and stand back 2-7/8" tbg, LD RBP.
- 6) RIH 4-3/4" bit on 2-7/8" tbg and tag TOC at 6991'. POOH and stand back.
- 7) MIRU WLU, RIH 4.62" GR to 5386', POOH, RIH 4.65" CIBP, Set CIBP at 5376'.
- 8) RIH 2-7/8" tbg to 5376', spot 25 SXS Class C cement, stand back, WOC, tag TOC at 5129' (T/Perf). Notify BLM. Circulate salt gel and pressure test to 500 psig.
- 9) Spot 35 SXS Class C cement from 4502' to 4352' (DV Tool). POOH 2-7/8" tbg.
- 10) MIRU WLU. Perforate at 3188. Perf and sqz not required. All strings cemented to surface
- 11) RIH 2-7/8" tbg. Squeeze 91 SXS Class C cement from 3188' to 2800' (T/Del, B/Salt, 8-5/8" CSG shoe). Notify BLM. Tag at least to 2820' and pressure test to 500 psig.
- 12) MIRU WLU. Perforate at 370'.
- 43) Squeeze Class C cement until returns at surface (13-3/8" CSG shoe, surface plug).
- 14) Spot 315sx from 3188' to surface. Verify at surface (R111P BOS to Surface. Combined Delaware and Shoe with it. Stage if necessary)
- ND BOP and cut off wellhead 5' below surface. RDMO PU, transport trucks, and pump truck.
- 16) Set P&A marker.
- 17) Pull fluid from steel tank and haul to disposal. Release steel tank.

- 17) POOH w/ 2-7/8" tbg. TIH 2-3/8" tbg and tag PBTD at 4,964'. Notify BLM.
- 18) POOH w/tbg. RU WL, and RIH WL. Perf 7" csg at 4,385' and squeeze 175 sxs Class C cmt. Tag at least to 4,000' and pressure test 500psi. Notify BLM. (9-5/8" csg show, T/Del, B/Salt)
- 19) POOH w/tbg. RU WL, and RIH WL. Perf 7" csg at 1,039' and squeeze 150 sxs Class C cmt. Tag at least to 885'. (13-3/8" csg shoe, T/Salt)
- 20) POOH w/tbg. RU WL, and RIH WL. Perf 7" csg at 632' and squeeze 150 sxs Class C cmt. Tag at least to 482'. (T/Rustler)
- 21) POOH w/tbg. RU WL, and RIH WL. Perf 7" csg at 60' and squeeze Class C cmt until returns at surface. (Surface plug)
- 22) ND BOP and cut off wellhead 5' below surface. RDMO PU, transport trucks, and pump truck.
- 23) Set P&A marker.
- 24) Pull fluid from steel tank and haul to disposal. Release steel tank.

# Nash Unit 038 - Proposed WBD



Sundry ID 2688006

Sundry ID	2688006					
Plug Type	Тор	Bottom	Length	Tag	Sacks	Notes
Surface Plug	0.00	3188.00		Tag/Verify	315.00	R111P. Base of Salt to Surface. Combined with Shoe and Delaware Plug
Shoe Plug	0.00	3188.00	3188.00	Tag/Verify	315.00	R111P. Base of Salt to Surface. Combined with Shoe and Delaware Plug
Base of Salt @ 2920	0.00	3188.00	3188.00	Tag/Verify	315.00	R111P. Base of Salt to Surface. Combined with Shoe and Delaware Plug
Shoe Plug	0.00	3188.00	3188.00	Tag/Verify	315.00	R111P. Base of Salt to Surface. Combined with Shoe and Delaware Plug
				If solid base no need to Tag (CIBP present and/or Mechanic al Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforatio		R111P. Base of Salt to Surface. Combined with Shoe
Delaware @ 3138	0.00	3188.00	3188.00	ns	315.00	and Delaware Plug
DV tool plug	4357.48	4502.00	144.52	Tag/Verify	25.00	

				If solid		
				base no		
				need to		
				Tag		
				(CIBP		
				present		
				and/or		
				Mechanic		
				al Integrity		
				Test), If		
				Perf &		
				Sqz then		
				Tag, Leak		
				Test all		
				CIBP if no		
				Open		
				Perforatio		Pressure test
CIBP Plug	5341.00	5376.00	35.00	ns	25.00	500psi, 30mins

No more than 2000' is to be allowed between plugs in open hole, and no more than 3000' between plugs in cased hole.

Class H >7500'

Class C<7500'

Fluid used to mix the cement in R111P shall be saturated with the salts common to the section penetrated, and in suitable proportions, but not more than 3% calcium chloride by weight of cement will be considered the desired mixture whenever possible.

Critical, High Cave Karst: Cave Karst depth to surface

R111P: Solid plug in all annuli - 50' from bottom of salt to surface.

Class C: 1.32 ft^3/sx Class H: 1.06 ft^3/sx

Onshore Order 2.III.G Drilling Abandonment Requirements: "All formations bearing usable-quality water, oil, gas, or geothermal resources, and/or a prospectively valuable deposit of minerals shall be protected.

Cave Karst/Potash Cement	High	KARST DEPTH/TOS to s	urface	500.00
Shoe @ Shoe @ Shoe @	310.00 3004.00 7203.00			
Perforatons Top @	5436.00	Perforations	7033.00	
DV Tool @	4452.00	CIBP @	5376.00	

# BUREAU OF LAND MANAGEMENT Carlsbad Field Office 620 East Greene Street Carlsbad, New Mexico 88220 575-234-5972

## Permanent Abandonment of Federal Wells Conditions of Approval

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within <u>ninety (90)</u> days from the approval date of this Notice of Intent to Abandon.

If you are unable to plug the well by the 90<sup>th</sup> day provide this office, prior to the 90<sup>th</sup> day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged. Failure to do so will result in enforcement action.

The rig used for the plugging procedure cannot be released and moved off without the prior approval of the authorized officer. Failure to do so may result in enforcement action.

- 2. <u>Notification:</u> Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-689-5981.
- 3. <u>Blowout Preventers</u>: A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.
- 4. <u>Mud Requirement:</u> Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of **brine** water. Minimum nine (9) pounds per gallon.
- 5. <u>Cement Requirement</u>: Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. **Before pumping or bailing cement on top of CIBP, tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary.** 

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

6. <u>Dry Hole Marker</u>: All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The BLM is to be notified a minimum of 4 hours prior to the wellhead being cut off to verify that cement is to surface in the casing and all annuluses. Wellhead cut off shall commence within ten (10) calendar days of the well being plugged. If the cut off cannot be done by the 10<sup>th</sup> day, the BLM is to be contacted with justification to receive an extension for completing the cut off.

The well bore shall then be capped with a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement, unless otherwise noted in COA (requirements will be attached). The following information shall be permanently inscribed on the dry hole marker: well name and number, name of the operator, lease serial number, surveyed location (quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer such as metes and bounds). A weep hole shall be left if a metal plate is welded in place.

- 7. <u>Subsequent Plugging Reporting:</u> Within 30 days after plugging work is completed, file one original and three copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date well was plugged.**
- 8. <u>Trash:</u> All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration will be required. See attached reclamation objectives.



# **United States Department of the Interior**

#### BUREAU OF LAND MANAGEMENT

Carlsbad Field Office 620 E. Greene St. Carlsbad, New Mexico 88220-6292 www.blm.gov/nm



In Reply Refer To: 1310

## **Reclamation Objectives and Procedures**

**Reclamation Objective:** Oil and gas development is one of many uses of the public lands and resources. While development may have a short- or long-term effect on the land, successful reclamation can ensure the effect is not permanent. During the life of the development, all disturbed areas not needed for active support of production operations should undergo "interim" reclamation in order to minimize the environmental impacts of development on other resources and uses. At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land and water are restored.

The long-term objective of final reclamation is to set the course for eventual ecosystem restoration, including the restoration of the natural vegetation community, hydrology, and wildlife habitats. In most cases this means returning the land to a condition approximating or equal to that which existed prior to the disturbance. The final goal of reclamation is to restore the character of the land and water to its predisturbance condition. The operator is generally not responsible for achieving full ecological restoration of the site. Instead, the operator must achieve the short-term stability, visual, hydrological, and productivity objectives of the surface management agency and take steps necessary to ensure that long-term objectives will be reached through natural processes.

To achieve these objectives, remove any/all contaminants, scrap/trash, equipment, pipelines and powerlines (Contact service companies, allowing plenty of time to have the risers and power lines and poles removed prior to reclamation, don't wait till the last day and try to get them to remove infrastructure). Strip and remove caliche, contour the location to blend with the surrounding landscape, re-distribute the native soils, provide erosion control as needed, rip (across the slope and seed as specified in the original APD COA. This will apply to well pads, facilities, and access roads. Barricade access road at the starting point. If reserve pits have not reclaimed due to salts or other contaminants, submit a plan for approval, as to how you propose to provide adequate restoration of the pit area.

- The Application for Permit to Drill or Reenter (APD, Form 3160-3), Surface Use Plan of
  Operations must include adequate measures for stabilization and reclamation of disturbed lands.
  Oil and Gas operators must plan for reclamation, both interim and final, up front in the APD
  process as per Onshore Oil and Gas Order No. 1.
- 2. For wells and/or access roads not having an approved plan, or an inadequate plan for surface reclamation (either interim or final reclamation), the operator must submit a proposal describing the procedures for reclamation. For interim reclamation, the appropriate time for submittal would be when filing the Well Completion or Recompletion Report and Log (Form 3160-4). For final reclamation, the appropriate time for submittal would be when filing the Notice of Intent, or the Subsequent Report of Abandonment, Sundry Notices and Reports on Wells (Form 3160-5). Interim reclamation is to be completed within 6 months of well completion, and final reclamation is to be completed within 6 months of well abandonment.
- 3. The operator must file a Subsequent Report Plug and Abandonment (Form 3160-5) following the plugging of a well.
- 4. Previous instruction had you waiting for a BLM specialist to inspect the location and provide you with reclamation requirements. If you have an approved Surface Use Plan of Operation and/or an approved Sundry Notice, you are free to proceed with reclamation as per approved APD. If you

have issues or concerns, contact a BLM specialist to assist you. It would be in your interest to have a BLM specialist look at the location and access road prior to the removal of reclamation equipment to ensure that it meets BLM objectives. Upon conclusion submit a Form 3160-5, Subsequent Report of Reclamation. This will prompt a specialist to inspect the location to verify work was completed as per approved plans.

- 5. The approved Subsequent Report of Reclamation will be your notice that the native soils, contour and seedbed have been reestablished. If the BLM objectives have not been met the operator will be notified and corrective actions may be required.
- 6. It is the responsibility of the operator to monitor these locations and/or access roads until such time as the operator feels that the BLM objective has been met. If after two growing seasons the location and/or access roads are not showing the potential for successful revegetation, additional actions may be needed. When you feel the BLM objectives have been met submit a Final Abandonment Notice (FAN), Form 3160-5, stating that all reclamation requirements have been achieved and the location and/or access road is ready for a final abandonment inspection.
- 7. At this time the BLM specialist will inspect the location and/or access road. If the native soils and contour have been restored, and the revegetation is successful, the FAN will be approved, releasing the operator of any further liability of the location and/or access road. If the location and/or access road have not achieved the objective, you will be notified as to additional work needed or additional time being needed to achieve the objective.

If there are any questions, please feel free to contact any of the following specialists:

Jim Amos Supervisory Petroleum Engineering Tech/Environmental Protection Specialist 575-234-5909 (Office), 575-361-2648 (Cell)

Arthur Arias Environmental Protection Specialist 575-234-6230

Crisha Morgan Environmental Protection Specialist 575-234-5987

Jose Martinez-Colon Environmental Protection Specialist 575-234-5951

Mark Mattozzi Environmental Protection Specialist 575-234-5713

Robert Duenas Environmental Protection Specialist 575-234-2229

Trishia Bad Bear, Hobbs Field Station Natural Resource Specialist 575-393-3612 Received by OCD: 8/26/2022 12:51:31 PM Page 14 of 19



# **Downhole Well Profile - with Schematic**

Well Name: NASH UNIT 038

County Eddy SAP Cost Center ID Permit Number State/Province 3001529737 1137111001 New Mexico Surface Location T23S-R29E-S13 Original KB Elevation (ft) 3,014.00 Ground Elevation (ft) 2,998.00 Spud Date KB-Ground Distance (ft) Surface Casing Flange Elevation (ft) 9/16/1997 00:00 16.00

> 310.0 3,004.0 7,203.0

7,203.0 3,004.0 310.0 6,991.0

6,993.0 3,122.0

1200 1					10/1001 00:00	0,011.00		12,000.0			0.00			
					Wellbores									
MD	TVD (ftK	Incl	Vertical sc	hematic (actual)	Wellbore Name Original Hole			Parent Wellbore Original Hole				/ellbore API/UWI 1/9/97		
(ftKB)	(B)	(°)			Start Depth (ftKB)			Toriginal Hole		Profile Type		19191		
			Deidas Dive Townson Company	Surface; 17 1/2 in; 310.0 flKB	16.0				Į,	√ertical				
- 3,003.9	-		Bridge Plug - Temporary; 3,120.0-3,122.0 ftKB; TOH	Surface; 17 1/2 in; 310.0 ftKB Surface; 13 3/8 in; 310.0 ftKB Intermediate; 11 in; 3,004.0 ftKB Intermediate; 8 5/8 in; 3,004.0 ftKB	Section Des			Hole Sz (in)		Ac	ct Top (ftKB)		Act	Btm (ftKB)
_ 3,122.0			w/rod string and Tbg string set RBP 3120' monitor well;	Production; 7 7/8 in; 7,203.0 ftKB	Surface				17 1/2			16.0		310.
- 5,440.0			10/5/2018	Acidizing Hydraulic Fracture Perforation; 5,436.0-5,440.0 ftKB	Intermediate				11			310.0		3,004.
5,545.9			DO DVT; 4,452.0;	Perforation; 5,540.0 ft/KB Perforation; 5,546.0 ft/KB Perforation; 5,539.0 ft/KB	Production				7 7/8			3,004.0		7,203.
	1		N	Acidizing Perforation; 5,550.0 ft/KB Perforation; 5,551.0 ft/KB	Zones									
- 5,556.1	1			Perforation; 5,556.0 ft/KB Perforation; 5,557.0 ft/KB Perforation; 5,709.0 ft/KB	Zone Name			Top (ftKB)			Btm (ftKB)		Cur	rent Status
- 5,709.0	·			Perforation, 5,712.0 ftkB Perforation; 5,712.0 ftkB Perforation; 5,713.0 ftkB	BONE SPRING - 3RD									
- 5,714.9	-			Acidizing	DELAWARE									
- 5,724.1			90 10 10 10 10	Perforation, 5,723.0 ft/KB Perforation, 5,723.0 ft/KB Perforation, 5,724.0 ft/KB Perforation, 5,724.0 ft/KB	Casing Strings									
- 6,333.0			DO DVT; 5,945.0;	Perforation; 6,334.0 ftKB Perforation; 6,335.0 ftKB	Csg Des		Set Depth (ftl		OD (		Wt	t/Len (lb/ft)	11.40	Grade
- 6,336.0			50 50 50	Perforation; 6,33.0 ttKB	Surface			310.0		13 3/8			H-40	
	1			Perforation, 6,405.0 ft/KB Perforation; 6,405.0 ft/KB Perforation; 6,404.0 ft/KB	Intermediate			3,004.0		8 5/8		32.00		
- 6,404.9	1		157   157   157	Acidizing Hydraulic Fracture Perforation: 6.407.0 ft/KB	Production			7,203.0		5 1/2		17.00	J-55	
- 6,408.1	1			Perforation; 6,409.0 ft/KB  Perforation; 6,409.0 ft/KB	Cement			Type		Start Da	ata	Ton (ft//D)		Btm (ftKB)
- 6,710.0	-			Perforation; 6,710.0 ft/KB	Production Casing Ce			Type Casing	9/	/16/1997	ate	Top (ftKB)	16.0	7,203.
- 6,713.9			65   55   57	Perforation; 6,712.0 ft/KB Perforation; 6,714.0 ft/KB Perforation; 6,716.0 ft/KB	Intermediate Casing C			Casing		/16/1997			16.0	3,004.
- 6,721.1				Acidizing Perforation; 6,718.0 ftKB Perforation; 6,721.0 ftKB	Surface Casing Ceme			Casing		/16/1997			16.0	310.
- 6,724.1				Perforation; 6,722.0 ftKB Perforation; 6,723.0 ftKB Perforation; 6,724.0 ftKB	Cement Plug - Other			Plug		1/18/1997			70.0	6,991.
			M.	Perforation; 6,726.0 ftKB Perforation; 6,730.0 ftKB Perforation; 6,730.0 ftKB				3						
- 6,732.9				Perforation; 6,730.0 ft/KB Perforation; 6,730.0 ft/KB Perforation: 6,737.0 ft/KB	Tubing Strings Tubing Description			Run Date			Se	et Depth (ftKB)		
- 6,737.9	1			Perforation; 6,738.0 ft/KB Perforation; 6,739.0 ft/KB Perforation: 6,741.5 ft/KB	Tubing - Production			10/4/2018			0	0.0		
- 6,742.1	-			Perforation; 6,742.0 ftKB Perforation; 6,744.0 ftKB Perforation; 6,751.5 ftKB	Item Des		OD (in)	Wt (lb/ft)	Grade	Jts	Len (	(ft) Top	(ftKB)	Btm (ftKB)
- 6,753.0	-			Perforation; 6,753.0 ft/KB Perforation; 6,754.0 ft/KB Perforation: 6,755.0 ft/KB										
- 6,756.9			Size	Perforation; 6,757.0 ftKB Hydraulic Fracture Perforation; 6,812.0 ftKB	Other In Hole		D.			) (in)	Τ.	· (M/D)		Div. (GIAD)
- 6,821.9				Perforation; 6,813.0 ft/KB Perforation; 6,822.0 ft/KB Perforation: 6,824.0 ft/KB	Run Date 11/18/1997	CIBP	Des		OL	5 1/2	10	p (ftKB) 6,991.0		Btm (ftKB) 6,993.
- 6,832.0				Perforation; 6,827.0 ftKB Perforation; 6,832.0 ftKB Perforation; 6,833.0 ftKB	10/5/2018		Plug - Temp	orary		5 1/2		3,120.0		3,122.
- 6,842.8			100   100   100	Acidizing Perforation; 6,838.0 ftKB Perforation; 6,843.0 ftKB		Bridge	iag romp	orary		0 172		0,120.0		0,122.
				Perforation; 6,859.0 ft/KB Perforation; 6,859.0 ft/KB Perforation; 6,860.0 ft/KB	Perforations  Date		Top (ftKB)	\	Btm (fi	KR)		Linke	d Zone	
- 6,859.9				Perforation; 6,862.0 ft/KB Perforation; 6,862.0 ft/KB Perforation; 6,863.0 ft/KB	5/22/2001		100 (11.12)	5,436.0	Dan (ii		DELAWAR	RE, Original Ho		
- 6,862.9	1		CIBP; 6,991.0-6,993.0 ftKB;	Rod String; 0.00 in; 6,886.0 ft/KB  Cement; Cement Plug - Other; 6,991.0 ft/KB  PBTD; 6,970.0 ft/KB	5/22/2001			5,539.0				RE, Original Ho		
- 6,993.1	-		11/18/1997	Perforation; 7,001.0-7,001.5 ftKB	5/22/2001			5,540.0				RE, Original Ho		
- 7,002.0	-		<u>                                   </u>	Perforation; 7,002.0 ftKB Perforation; 7,002.5 ftKB	5/22/2001			5,546.0		5,546.0	DELAWAR	RE, Original Ho	le	
- 7,005.9			<u> </u>	Perforation; 7,004.0 ftKB Perforation; 7,006.0 ftKB Perforation; 7,005.5 ftKB	5/22/2001			5,550.0		5,550.0	DELAWAR	RE, Original Ho	le	
- 7,009.8				Perforation; 7,009.0 ftKB Perforation; 7,010.0 ftKB Perforation; 7,011.0 ftKB	5/22/2001			5,551.0		5,551.0	DELAWAR	RE, Original Ho	le	
7,016.1	1		V.	Perforation; 7,012,0 ft/KB Perforation; 7,016,0 ft/KB Hydraulic Fracture	5/22/2001			5,556.0		5,556.0	DELAWAR	RE, Original Ho	le	
			92 22	Acidizing Perforation; 7,018.0 ftKB Perforation; 7,019.0 ftKB	5/22/2001			5,557.0		5,557.0	DELAWAR	RE, Original Ho	le	
- 7,020.0	1			Perforation; 7,020.0 ftKB Perforation; 7,022.0 ftKB Perforation; 7,022.0 ftKB	11/18/1997			5,708.0		5,708.0	DELAWAR	RE, Original Ho	e	
- 7,023.9	1		No.   No.	Perforation; 7,024.0 ftKB Perforation; 7,026.0 ftKB Perforation; 7,026.0 ftKB	11/18/1997			5,709.0		5,709.0	DELAWAR	RE, Original Ho	le	
7,029.9	-			Perforation; 7,030.0 ftKB Perforation; 7,033.0 ftKB Production; 5 1/2 in; 7,203.0 ftKB	11/18/1997			5,712.0		5,712.0	DELAWAR	RE, Original Ho	le	
	<u> </u>	l	Na.	TD - Original Hole; 7,203.0 ftKB		•		•						
XTO I	Energ	У			Page	1/4						Rep	ort Print	ted: 8/15/2022

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# **Downhole Well Profile - with Schematic**

Well Name: NASH UNIT 038

l							
API/UWI	SAP Cost Center ID	Permit Number	State/Province		County		
3001529737	1137111001		New Mexico		Eddy		
Surface Location			Spud Date	Original KB Elevation (ft)	Ground Elevation (ft)	KB-Ground Distance (ft)	Surface Casing Flange Elevation (ft)
T23S-R29E-S13			9/16/1997 00:00	3,014.00	2,998.00	16.00	

	Perforations							
MD	TVD	Incl	Mantiagla ale anno	Ale (a studi)	Date	Top (ftKB)	Btm (ftKB)	Linked Zone
(ftKB)	(ftK     B)	(°)	Vertical schema	itic (actual)	11/18/1997	5,713.0	5,713.0	DELAWARE, Original Hole
				Surface: 17 1/2 in: 310 0 ftKRs	11/18/1997	5,715.0	5,715.0	DELAWARE, Original Hole
- 3,003.9 -			Bridge Plug - Temporary;	Surface; 17 1/2 in; 310.0 ftKB <sub>a</sub> .  Surface; 13 3/8 in; 310.0 ftKB Intermediate; 8 5/8 in; 3,004.0 ftKB	11/18/1997	5,719.0	5,719.0	DELAWARE, Original Hole
_ 3,122.0 _			w/rod string and Tbg string \	Production; 7 7/8 in; 7,203.0 ftKB	11/18/1997	5,723.0	5,723.0	DELAWARE, Original Hole
			set RBP 3120' monitor well; 10/5/2018	Acidizing  Hydraulic Fracture  Perforation; 5,436.0-5,440.0 ftKB	11/18/1997	5,724.0	5,724.0	DELAWARE, Original Hole
- 5,440.0 -			DO DVT; 4,452.0;	Perforation; 5,540.0 ftKB	11/18/1997	5,725.0	5,725.0	DELAWARE, Original Hole
- 5,545.9 -				Perforation; 5,539.0 ftKB Acidizing Perforation; 5,550.0 ftKB	11/18/1997	6,333.0	6,333.0	DELAWARE, Original Hole
- 5,556.1 -				Perforation; 5,551.0 ftKB Perforation; 5,556.0 ftKB Perforation; 5,557.0 ftKB	11/18/1997	6,334.0	6,334.0	DELAWARE, Original Hole
- 5,709.0 -				Perforation; 5,709.0 ftkB Perforation; 5,712.0 ftkB Perforation; 5,713.0 ftkB	11/18/1997	6,335.0	6,335.0	DELAWARE, Original Hole
- 5,714.9 -			[2] 39	Perforation; 5,715.0 ftKB Acidizing Perforation: 5,708.0 ftKB	11/18/1997	6,336.0	6,336.0	DELAWARE, Original Hole
			195 190	Perforation; 5,719.0 ftKB Perforation; 5,723.0 ftKB	11/18/1997	6,337.0	6,337.0	DELAWARE, Original Hole
- 5,724.1 -		1	DO DVT; 5,945.0;	Perforation; 5,724.0 ft/KB Perforation; 5,725.0 ft/KB Perforation; 6,334.0 ft/KB	11/18/1997	6,404.0	6,404.0	DELAWARE, Original Hole
- 6,333.0 -			E E 11, 0,040.0,	Perforation, 6,335.0 ft/KB Perforation, 6,333.0 ft/KB Acidizing	11/18/1997	6,405.0	6,405.0	DELAWARE, Original Hole
- 6,336.0 -				Perforation, 6,336.0 ft/KB Perforation, 6,337.0 ft/KB Perforation, 6,405.0 ft/KB	11/18/1997	6,406.0		DELAWARE, Original Hole
- 6,404.9 -				Perforation; 6,406.0 ft/KB Perforation; 6,404.0 ft/KB Acidizing	11/18/1997	6,407.0		DELAWARE, Original Hole
- 6,408.1 -				Hydraulic Fracture Perforation; 6,407.0 ftKB Perforation; 6,408.0 ftKB	11/18/1997	6,408.0		DELAWARE, Original Hole
- 6,710.0 -			30   30   80	Perforation; 6,409.0 ft/B	11/18/1997	6,409.0	·	DELAWARE, Original Hole
0,710.0			106 128	Perforation; 6,710.0 ft/KB Perforation; 6,711.0 ft/KB Perforation; 6,712.0 ft/KB	11/18/1997	6,709.0		DELAWARE, Original Hole
- 6,713.9 -			19 19	Perforation; 6,714.0 ft/KB Perforation; 6,716.0 ft/KB Acidizing	11/18/1997	6,710.0	·	DELAWARE, Original Hole
- 6,721.1 -				Perforation; 6,718.0 ft/KB Perforation; 6,721.0 ft/KB Perforation; 6,722.0 ft/KB	11/18/1997	6,711.0		DELAWARE, Original Hole
_ 6,724.1 _				Perforation; 6,723.0 ft/KB Perforation; 6,724.0 ft/KB Perforation; 6,726.0 ft/KB	11/18/1997	6,712.0		DELAWARE, Original Hole
- 6,732.9 -			- 17 - 17 - 17 - 17 - 17	Perforation; 6,730.0 ftKB Perforation; 6,733.0 ftKB Perforation; 6,709.0 ftKB	11/18/1997	6,714.0	·	DELAWARE, Original Hole
- 6,737.9 -			SA SA SA	Perforation; 6,736.0 ftKB Perforation; 6,737.0 ftKB	11/18/1997	6,716.0		DELAWARE, Original Hole
			100 100	Perforation, 6,738.0 ft/KB Perforation, 6,739.0 ft/KB Perforation, 6,741.5 ft/KB	11/18/1997	6,718.0		DELAWARE, Original Hole
- 6,742.1 -				Perforation; 6,742.0 ft/kB Perforation; 6,744.0 ft/kB Perforation; 6,751.5 ft/kB	11/18/1997	6,721.0		DELAWARE, Original Hole
- 6,753.0 -				Perforation; 6,753.0 ftKB Perforation; 6,754.0 ftKB Perforation; 6,755.0 ftKB	11/18/1997	6,722.0		DELAWARE, Original Hole
- 6,756.9 -				Perforation, 6,757.0 ft/KB Hydraulic Fracture Perforation, 6,812.0 ft/KB	11/18/1997	6,723.0		DELAWARE, Original Hole
- 6,821.9 -			199 194 196	Perforation; 6,813.0 ft/KB Perforation; 6,822.0 ft/KB Perforation; 6,824.0 ft/KB	11/18/1997	6,724.0	·	DELAWARE, Original Hole
- 6,832.0 -			<u>8</u>	Perforation, 6,827.0 ft/KB Perforation, 6,832.0 ft/KB Perforation, 6,833.0 ft/KB	11/18/1997	6,726.0	·	DELAWARE, Original Hole
- 6,842.8 -			500 100 100	Acidizing Perforation; 6,838.0 ftKB Perforation; 6,843.0 ftKB	11/18/1997	6,730.0	·	DELAWARE, Original Hole
			100	Perforation; 6,845.0 ft/KB Perforation; 6,859.0 ft/KB Perforation; 6,860.0 ft/KB	11/18/1997	6,733.0		DELAWARE, Original Hole
- 6,859.9 -		1	504 106 106	Perforation; 6,861.0 ft/KB Perforation; 6,862.0 ft/KB Perforation; 6,863.0 ft/KB	11/18/1997	6,736.0		DELAWARE, Original Hole
- 6,862.9 -			CIBP; 6,991.0-6,993.0 ftKB;	Rod String; 0.00 in; 6,886.0 ftKB Cement; Cement Plug - Other; 6,991.0 ftKB PBTD; 6,970.0 ftKB	11/18/1997	6,737.0		DELAWARE, Original Hole
- 6,993.1 -			CIBP; 6,991.0-6,993.0 ftkB;	Perforation; 7,001.0-7,001.5 ftKB	11/18/1997	6,738.0		DELAWARE, Original Hole
- 7,002.0 -			<u></u>	Perforation; 7,002.0 ft/KB		· ·		
- 7,005.9 -				Perforation; 7,006.0 ft/KB Perforation; 7,006.0 ft/KB Perforation; 7,006.5 ft/KB	11/18/1997	6,739.0		DELAWARE, Original Hole DELAWARE, Original Hole
7,009.8				Perforation; 7,009.0 ftKB Perforation; 7,010.0 ftKB Perforation; 7,011.0 ftKB	11/18/1997	6,741.5	·	9
			150 100	Perforation; 7,012.0 ftKB Perforation; 7,016.0 ftKB	11/18/1997	6,742.0	·	DELAWARE, Original Hole
- 7,016.1 -			50 (3)	Hydraulic Fracture Acidizing Perforation; 7,018.0 ftKB	11/18/1997	6,744.0		DELAWARE, Original Hole
- 7,020.0 -				Perforation; 7,020.0 ft/KB Perforation; 7,022.0 ft/KB Perforation; 7,022.0 ft/KB	11/18/1997	6,751.5	·	DELAWARE, Original Hole
- 7,023.9 -			Miles	Perforation; 7,023.0 ftKB Perforation; 7,024.0 ftKB Perforation; 7,026.0 ftKB	11/18/1997	6,753.0	·	DELAWARE, Original Hole
- 7,029.9 -				Perforation; 7,028.0 ftkB Perforation; 7,030.0 ftkB Perforation; 7,030.0 ftkB	11/18/1997	6,754.0	· ·	DELAWARE, Original Hole
				Pertoration; 7,033.0 ftKB Production; 5 1/2 in; 7,203.0 ftKB TD - Original Hole; 7,203.0 ftKB	11/18/1997	6,755.0	6,755.0	DELAWARE, Original Hole
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# **Downhole Well Profile - with Schematic**

Well Name: NASH UNIT 038

API/UWI 3001529737	SAP Cost Center ID 1137111001		State/Province New Mexico	County Eddy			
		Spud Date 9/16/1997 00:00	Ground Elevation (ft) KB-Ground Distance (ft) Surface Cas 2,998.00		Surface Casing Flange Elevation (ft)		

					Perforations				
MD	TVD	Incl			Date	Top (ftKB)	Btm (ftKB)	Linked 2	Zone
KB)	(ftK B)	(°)	Vertical sche	ematic (actual)	11/18/1997	6,757	.0 6,757.0	DELAWARE, Original Hole	
	- '			Surface: 17.1/3 in: 240.0 BKD	11/18/1997	6,812	.0 6,812.0	DELAWARE, Original Hole	
03.9 –			Bridge Plug - Temporary;	Surface; 17 1/2 in; 310.0 ft/B Surface; 13 3/8 in; 310.0 ft/B Intermediate; 11 in; 3,004.0 ft/B Intermediate; 15 in; 3,004.0 ft/B Intermediate; 8 5/8 in; 3,004.0 ft/B	11/18/1997	6,813	.0 6,813.0	DELAWARE, Original Hole	
.0 –			w/rod string and Tbg string	<u></u>	11/18/1997	6,822	.0 6,822.0	DELAWARE, Original Hole	
1			set RBP 3120' monitor well;	Production; 7 7/8 in; 7,203.0 ftKB Acidizing Hydraulic Fracture	11/18/1997	6,824	.0 6,824.0	DELAWARE, Original Hole	
ŀ			DO DVT: 4.452 0:	Perforation; 5,436.0-5,440.0 ftKB  Perforation; 5,540.0 ftKB  Perforation; 5,546.0 ftKB	11/18/1997	6,827	.0 6,827.0	DELAWARE, Original Hole	
	ſ -		DO DV1, 4,402.0,	Perforation, 5,593.0 ft/KB Acidizing Perforation: 5,590.0 ft/KB	11/18/1997	6,832	.0 6,832.0	DELAWARE, Original Hole	
ŀ				Perforation; 5,551.0 ftKB Perforation; 5,556.0 ftKB Perforation; 5,557.0 ftKB	11/18/1997	6,833	.0 6,833.0	DELAWARE, Original Hole	
				Perforation; 5,709.0 ftKB Perforation; 5,712.0 ftKB	11/18/1997	6,838	.0 6,838.0	DELAWARE, Original Hole	
			200 200 200 200 200 200 200 200 200 200	Perforation; 5,713.0 ft/KB Perforation; 5,715.0 ft/KB Acidizing	11/18/1997	6,843	.0 6,843.0	DELAWARE, Original Hole	
Ĺ			19 10	Perforation; 5,708.0 ft/KB Perforation; 5,723.0 ft/KB Perforation; 5,723.0 ft/KB	11/18/1997	6,845		DELAWARE, Original Hole	
ľ			DO DVT; 5,945.0;	Perforation; 5,724.0 ft/KB Perforation; 5,725.0 ft/KB Perforation; 6,334.0 ft/KB	11/18/1997	6,859		DELAWARE, Original Hole	
ŀ			DO DV1, 3,943.0,	Perforation; 6,335,0 ftKB Perforation; 6,333.0 ftKB Acidizing	11/18/1997	6,860		DELAWARE, Original Hole	
ŀ				Perforation, 6,336.0 ft/KB Perforation, 6,337.0 ft/KB Perforation, 6,405.0 ft/KB	11/18/1997	6,861		DELAWARE, Original Hole	
I				Perforation; 6,406.0 ftKB Perforation; 6,404.0 ftKB Acidizing	11/18/1997	6,862		DELAWARE, Original Hole	
			154   155   156   156	Hydraulic Fracture Perforation; 6,407.0 ftKB Perforation; 6,408.0 ftKB	11/18/1997	6,863	· ·	DELAWARE, Original Hole	
١	l		₩.	Perforation; 6,409.0 ftKB	11/18/1997	7,001		BONE SPRING - 3RD, Orig	inal Hole
ĺ			75 176 177 179 179 170 170 170 170 170 170 170 170 170 170	Perforation; 6,710.0 ft/KB Perforation; 6,711.0 ft/KB Perforation; 6,712.0 ft/KB	11/18/1997	7,002		BONE SPRING - 3RD, Orig	
			169 169	Perforation; 6,714.0 ft/KB Perforation; 6,716.0 ft/KB Acidizing	11/18/1997	7,002	· ·	BONE SPRING - 3RD, Orig	
				Perforation; 6,718.0 ft/KB Perforation; 6,721.0 ft/KB Perforation; 6,722.0 ft/KB	11/18/1997	7,004	· ·	BONE SPRING - 3RD, Orig	
				Perforation; 6,723.0 ft/KB Perforation; 6,724.0 ft/KB Perforation; 6,726.0 ft/KB	11/18/1997	7,006		BONE SPRING - 3RD, Orig	
				Perforation; 6,730.0 ft/KB Perforation; 6,733.0 ft/KB Perforation; 6,709.0 ft/KB	11/18/1997	7,006		BONE SPRING - 3RD, Orig	
1 1			200 200 200 200 200 200 200 200 200 200	Perforation; 6,736.0 ftKB Perforation; 6,737.0 ftKB	11/18/1997	7,009	· ·	BONE SPRING - 3RD, Orig	
ſ Ī			76 72	Perforation; 6,738.0 ft/KB Perforation; 6,739.0 ft/KB Perforation; 6,741.5 ft/KB	11/18/1997	7,010		BONE SPRING - 3RD, Orig	
i i			100 100	Perforation; 6,742.0 ft/KB Perforation; 6,741.0 ft/KB Perforation; 6,751.5 ft/KB	11/18/1997	7,010		BONE SPRING - 3RD, Orig	
ŀ			To   To   To   To   To   To   To   To	Perforation; 6,753.0 ft/KB Perforation; 6,754.0 ft/KB Perforation; 6,755.0 ft/KB	11/18/1997	7,011	· ·	BONE SPRING - 3RD, Orig	
ŀ				Perforation; 6,757.0 ft/B Hydraulic Fracture Perforation; 6,812.0 ft/KB	11/18/1997	7,012		BONE SPRING - 3RD, Orig	
ŀ			100 100 100 100 100 100	Perforation; 6,813.0 ft/KB Perforation; 6,822.0 ft/KB Perforation; 6,824.0 ft/KB	11/18/1997	7,010		BONE SPRING - 3RD, Orig	
				Perforation; 6,827.0 ft/KB Perforation; 6,832.0 ft/KB Perforation; 6,833.0 ft/KB	11/18/1997	7,010		BONE SPRING - 3RD, Orig	
ĺ			98 199 190	Acidizing Perforation; 6,838.0 ftKB Perforation; 6,843.0 ftKB	11/18/1997	7,019	· ·	BONE SPRING - 3RD, Orig	
			186	Perforation; 6,845,0 ft/KB Perforation; 6,859.0 ft/KB Perforation; 6,860.0 ft/KB	11/18/1997	7,020		BONE SPRING - 3RD, Orig	
ľ				Perforation; 6,861.0 ft/KB Perforation; 6,862.0 ft/KB Perforation; 6,863.0 ft/KB	11/18/1997	7,022	, , , , , , , , , , , , , , , , , , ,	BONE SPRING - 3RD, Orig	
ŀ				Rod String; 0.00 in; 6,886.0 ftKB  Cement; Cement Plug - Other; 6,991.0 ftKB  PETD; 6,970.0 ftKB		·	· ·	BONE SPRING - 3RD, Orig	
ŀ			CIBP; 6,991.0-6,993.0 ftKB; 11/18/1997	Perforation; 7,001.0-7,001.5 ftKB	11/18/1997	7,024	<u> </u>	,	
ļ			<u></u>	Perforation 7,002.0 ft/RB Perforation 7,002.5 ft/RB	11/18/1997	7,026		BONE SPRING - 3RD, Orig	
			100   100   100	Perforation; 7,004.0 ftKB Perforation; 7,006.0 ftKB	11/18/1997	7,028		BONE SPRING - 3RD, Orig	
ĺ			<b>8</b>	Perforation; 7,006.5 ffKB Perforation; 7,010.0 ffKB Perforation; 7,010.0 ffKB	11/18/1997	7,030	· ·	BONE SPRING - 3RD, Orig	
1				Perforation; 7,011.0 ftKB Perforation; 7,012.0 ftKB Perforation; 7,016.0 ftKB	11/18/1997	7,033	.0 /,033.0	BONE SPRING - 3RD, Orig	inai Hoie
				Hydraulic Fracture Acidizing Perforation; 7,018.0 ftKB	Stimulation Intervals	Ton (#I/D)	Dtm (ftl/D)	(min) MID (hhl/min)	Dronnest Tatal (III)
-	-			Perforation; 7,019.0 ftKB  Perforation; 7,020.0 ftKB  Perforation; 7,022.0 ftKB	Interval Number	Top (ftKB) 7,001.0	7,033.0 AIR (bbl/	/min) MIR (bbl/min)	Proppant Total (lb) 43,740.0
-			25   26   10   10   10   10   10   10   10   10	Perforation; 7,023.0 ftKB Perforation; 7,024.0 ftKB	2	6,709.0	6,863.0	20	179,840.0
	_		150 150	Perforation; 7,028.0 ft/KB Perforation; 7,030.0 ft/KB Perforation; 7,030.0 ft/KB	3	· · · · · · · · · · · · · · · · · · ·	6,409.0	4	
1			185 185	Perforation; 7,033.0 ftKB Production; 5 1/2 in; 7,203.0 ftKB TD - Original Hole; 7,203.0 ftKB	3	6,404.0	0,409.0	4	5,500.0

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# **Downhole Well Profile - with Schematic**

Well Name: NASH UNIT 038

API/UWI 3001529737	SAP Cost Center ID 1137111001	Permit Number	State/Province New Mexico		County Eddy			
Surface Location T23S-R29E-S13			<b>.</b> '	Original KB Elevation (ft) 3,014.00	( )	KB-Ground Distance (ft) 16.00	Surface Casing Flange Elevation (ft)	

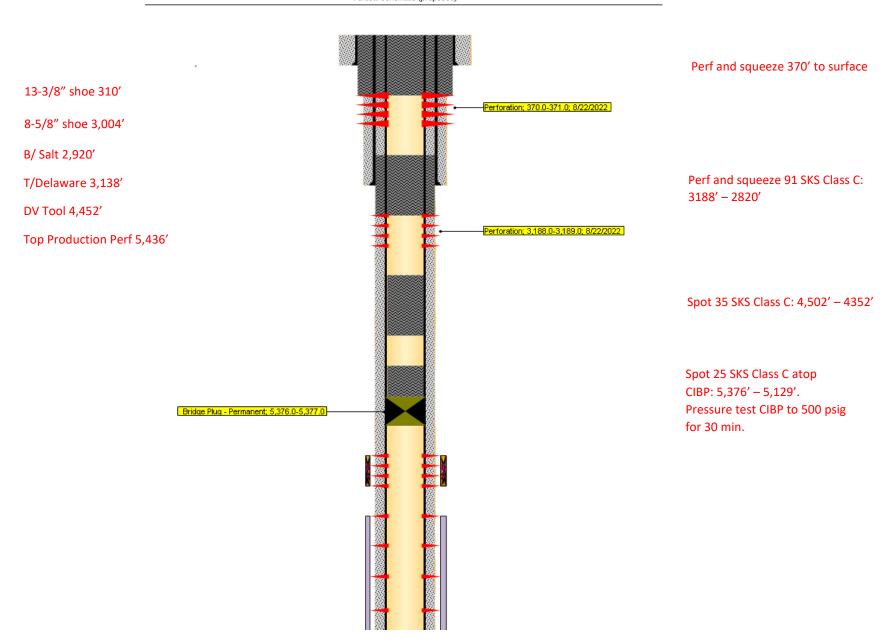
,003.9				Vertical schematic (actual)							
,122.0 – ,440.0 –			Bridge Plug - Temporary;		Surface; 13 3/8 in Intermediate; 11 i	; 310.0 ftKB ; 310.0 ftKB n; 3,004.0 ftKB 8 in; 3,004.0 ftKB					
			w/rod string and Tbg string set RBP 3120' monitor well;		Production; 7 7/8						
			10/5/2018		Acidizing Hydraulic Fracture Perforation; 5,436	в 0-5,440.0 ftКВ					
,545.9			DO DVT; 4,452.0;	- (A) - (A) - (A)	Perforation; 5,540 Perforation; 5,546 Perforation; 5,539	i.0 ftKB					
				100	Acidizing Perforation; 5,550 Perforation; 5,551	).0 ftKB					
556.1		*		301 304 33	Perforation; 5,556 Perforation; 5,557 Perforation; 5,709						
709.0		*		23   26   27   27	Perforation; 5,712 Perforation; 5,713 Perforation; 5,715	I.0 ftKB					
714.9				30 30 30	Acidizing Perforation; 5,708 Perforation; 5,718	0.0 ftKB					
724.1		*		00 00 100 100	Perforation; 5,725 Perforation; 5,725 Perforation; 5,725	i.0 ftKB i.0 ftKB					
333.0			DO DVT; 5,945.0;		Perforation; 6,334 Perforation; 6,335 Perforation; 6,333	i.0 ftKB					
336.0				90 90	Acidizing Perforation; 6,336 Perforation; 6,406	.0 ftKB					
404.9					Perforation; 6,406	i.0 ftKB					
408.1				Wa Wa	Hydraulic Fracture Perforation; 6,407	.0 ftKB					
710.0				00 08 08 08	Perforation; 6,409						
				96 98 77	Perforation; 6,711 Perforation; 6,711 Perforation; 6,712	.0 ftKB					
713.9				V9 V9	Perforation; 6,716 Acidizing Perforation; 6,718	6.0 ftKB					
721.1		*			Perforation; 6,721 Perforation; 6,722 Perforation; 6,723	.0 ftKB					
724.1				30 30	Perforation; 6,726 Perforation; 6,730	0.0 ftKB					
732.9				<u>**</u>	Perforation; 6,733 Perforation; 6,709 Perforation: 6,736	0.0 ftKB					
737.9				(8)	Perforation; 6,737	'.0 ftKB					
742.1				500 500 500 500 500 500 500 500 500 500	Perforation; 6,741 Perforation; 6,742 Perforation; 6,742	.5 ftKB .0 ftKB					
753.0				👸	Perforation; 6,751 Perforation; 6,753 Perforation; 6,754	I.O ftKB					
756.9					Perforation; 6,755 Perforation; 6,757 Hydraulic Fracture	7.0 ftKB					
821.9				100 100 100	Perforation; 6,812 Perforation; 6,813 Perforation; 6,822	I.O ftKB I.O ftKB					
832.0				96 98	Perforation; 6,824 Perforation; 6,827 Perforation; 6,832 Perforation; 6,833	'.0 ftKB					
	Ī				Acidizing Perforation; 6,838	1.0 ftKB					
842.8				30 30 88	Perforation; 6,845 Perforation; 6,845 Perforation; 6,855 Perforation; 6,860	i.0 ftKB I.0 ftKB					
859.9		*		80 80	Perforation; 6,861 Perforation; 6,862 Perforation; 6,863	.0 ftKB .0 ftKB .0 ftKB					
862.9		*	CIPD: 6 004 0 6 002 0 H/P:		Rod String; 0.00 i Cement; Cement PBTD: 6.970.0 ft/	n; 6,886.0 ftKB Plug - Other; 6,991.0 ftKB					
993.1			CIBP; 6,991.0-6,993.0 ftKB; 11/18/1997	W	Perforation: 7.001	.0-7.001.5 ftKB					
002.0					Perforation; 7,002	2.0 ftKB 2.5 ftKB					
005.9				(20)	Perforation; 7,002 Perforation; 7,006 Perforation; 7,006 Perforation; 7,006	5.0 ftKB 5.5 ftKB					
009.8					Perioration; 7,006 Perforation; 7,010 Perforation; 7,011	1.0 ftKB 1.0 ftKB					
016.1	. ]			99 99	Perforation; 7,012 Perforation; 7,016 Hydraulic Fractun Acidizing	i.0 ftKB					
				25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Perforation; 7,018	0.0 ftKB					
020.0	1			(V)	Perforation; 7,020 Perforation; 7,020 Perforation; 7,020	2.0 ftKB 3.0 ftKB					
023.9	†			VO VA	Perforation; 7,026 Perforation; 7,026	i.0 ftKB i.0 ftKB					
029.9	†	٠		(S)	Perforation; 7,030 Perforation; 7,032 Production; 5 1/2 TD - Original Hole	i.0 ftKB in; 7,203.0 ftKB					

Stimulation Intervals												
Interval Number	Top (ftKB)	Btm (ftKB)	AIR (bbl/min)	MIR (bbl/min)	Proppant Total (lb)							
93	5,539.0	5,557.0	3		0.0							
94	5,708.0	5,725.0			0.0							
95	6,333.0	6,337.0	3		0.0							
96	6,404.0	6,409.0	3		0.0							
97	6,709.0	6,726.0	3		0.0							
98	6,812.0	6,863.0	3		0.0							
99	7,001.0	7,033.0		2,650	0.0							
1	5,436.0	5,440.0			0.0							
99	5,436.0	5,440.0	3		0.0							

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# Nash Unit 038 - Proposed WBD

Vertical schematic (proposed)



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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 138533

## **CONDITIONS**

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	138533
	Action Type:
	[C-103] NOI Plug & Abandon (C-103F)

#### CONDITIONS

Created By		Condition Date
gcordero	None	8/30/2022