LUMENUTCE NAM DECRETY       Description       Description <thdescript< th=""><th>Form 3160-5 , (June 2015) DI B</th><th>UNITED STATES EPARTMENT OF THE I UREAU OF LAND MANA</th><th>NTERIOR</th><th></th><th>-0</th><th>OMB N</th><th>APPROVED D. 1004-0137 muary 31, 2018</th><th>(</th></thdescript<>	Form 3160-5 , (June 2015) DI B	UNITED STATES EPARTMENT OF THE I UREAU OF LAND MANA	NTERIOR		-0	OMB N	APPROVED D. 1004-0137 muary 31, 2018	(
T. Type of Well     Other     Other	SUNDRY	NOTICES AND REPO	RTS ON WI		- 0 <sup>CV</sup>	5. Lease Serial No. NMNM118722		
1. Type of Well	Do not use th abandoned we	is form for proposals to II. Use form 3160-3 (AP	drill or to re D) for such p	enter an BB	<u>5 2020</u>	6. If Indian, Allottee o	r Tribe Name	
2 Name of Operator         Contact:         LAURA BECERRA         9. AFI with No.           3a. Address         Multiple-See Attached         10. Field are Not or Diplomago Area           3in Address         10. Field area         ANTELOPE RIDGE-WOLFCAMP           4. Location of Wultiple-See Attached         10. Field area         ANTELOPE RIDGE-WOLFCAMP           4. Location of Wultiple-See Attached         11. County or Parish, State         LEA COUNTY, NM           12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA         TYPE OF ACTION         ILEA COUNTY, NM           12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA         TYPE OF ACTION         ILEA COUNTY, NM           13. Optice of Intent         Acticize         Deepen         Production (Stat/Resume)         Water Shui-Off           G Notice of Intent         Charge Plans         Play and Abandon         Casting Repair         New Construction         Recomplete         Optione Transporting Abandon         Casting Casting Repair         New Construction         Recomplete         Optione Transporting Abandon         Casting Repair         Optione Transporting Abandon         Casting Repair         Option Transporting Abandon         Casting Repair         Option Transporting Abandon         Casting Repair         Option Transporting Abandon         Casting Repair Abandon         Casting Repair Abandon	SUBMIT IN	TRIPLICATE - Other ins	tructions on	page 2 MAK	ENF	D If Unit or CA/Agree	ement, Name and	/or No.
CHEVRON USA INC       E-Mail: LBECERRÂ@ÖHEVRON/CÓM       Multiple-See Attached         38. Address       10. Field am Role or Exploratory Area       ANTELOPE RELVD       Ph: 432-637-7665       10. Field am Role or Exploratory Area         4. Location of Well       (Froiding, Sec. T. R. M. or Survey Description)       11. County or Parinh, State         4. Location of Well       (Froiding, Sec. T. R. M. or Survey Description)       11. County or Parinh, State         4. Location of Well       (Froiding, Sec. T. R. M. or Survey Description)       11. County or Parinh, State         12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA       TYPE OF SUBMISSION       IVER OF SUBMISSION         50. Notice of Intent <ul> <li>Advertise</li> <li>Casing Repair</li> <li>New Construction</li> <li>Recomplete</li> <li>Conge Plans</li> <li>Plag and Abandon</li> <li>Change Plans</li> <li>Plag and Abandon</li> <li>Convert to Injection</li> <li>Plag and Abandon ander visich key with all perinime and and No. on file with ALMMAL Require statisticated or growtick the appropriate duration thereof.</li> <li>Attech the Bounder visich key with BL perindent or analy state and and the Vertical department markers and and cet the file with all approximate duration thereof.</li> <li>Attech the Bounder visich key with BL perindent and No. on file with ALMMAL Required subscrupt report marker and and the determinic that the state state of the With all approximate duration thereof.</li> <li>Attech the Bounder visich key with BL perindent analys file durabandon aneterminical and anall and the operindent on t</li></ul>		her		RF	CET	8. Well Name and No. MultipleSee Atta	ched	
1616 W. BENDER BLVD       Ph: 432-697-7665       ANTELOPE RUDGE-WOLFCAMP         HOBBS, MM 86240       I. County or Parish, State       LEA COUNTY, NM         Multiple-See Attached       II. County or Parish, State       LEA COUNTY, NM         I2. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA       TYPE OF SUBMISSION       TYPE OF SUBMISSION       Water Shut-Off         I3. Notice of Intent       ANTELOPE RUBGE-WOLFCAME       Production (Start/Resume)       Water Shut-Off         I3. Subsequent Report       Chaing Repair       IN eve Construction       Recomplete       Onther Orthoge Official Integrity         I3. Decrific Proposed of Completed Operation. Clearly year all pertinent delik, including scinated starting duel or yarropsed vok and approximate duration theorof.       Onther Orthoge Official Integrity       Onther Orthoge Official Integrity         I3. Decrific Proposed of Completed Operation. Clearly year all pertinent delik, including scinated starting duel or yarropsed vok and approximate duration theoref       If the proposal is to degree directionally or recomplete horizontally, year subsafface Locations and measure and zones.       Water Disposal         I3. Decrific Proposed of Completed Operation. Clearly year all pertinent delix, including reclamation, have been completed and the operator has determined the sele is redo for final Inspection.       Water Disposal         I3. Decrific Proposed of Completed Operation. Clearly year all pertinent delix, final inspection.       Convert to Injection The Clearly							tached	
Multiple-See Attached       LEA COUNTY, NM         12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA         TYPE OF SUBMISSION       TYPE OF ACTION         Image: Complete Completed Completed Completed Casing       Deceme       Production (Start/Resume)       Water Shut-OF         Image: Completed	1616 W. BENDER BLVD							
12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA         TYPE OF SUBMISSION       TYPE OF ACTION         Image: Complete Compl	4. Location of Well (Footage, Sec., 1	r., R., M., or Survey Description	l)			11. County or Parish,	State	
TYPE OF SUBMISSION       TYPE OF ACTION         Image: Construction of the state o	MultipleSee Attached					LEA COUNTY,	NM	
Image: Subsequent Report <pre>             Alter Casing</pre> Hydraulic Fracturing             Recomplete             Change Plans             Chang	12. CHECK THE A	PPROPRIATE BOX(ES)	TO INDICA	TE NATURE O	F NOTICE,	REPORT, OR OTH	IER DATA	
B Notice of Intent       After Casing       Hydraulic Fracturing       Reclamation       Well Integrity         B Subsequent Report       Casing Repair       New Construction       Recomplete       Onshore Order Variation (Construction)       B Other         13. Describe Proposed or Completed Operation: Clearly state all perimet details, including estimated stating also of any proposed work and approximate duration theorof. The proposed is to deepen durationally give subsering cloations and measured and the vertical depth of all perimeter markers and zone. Attach the Bond subsering subsequent reports must be filed within 30 days following completion of the work will be performed or provide the Bond No. on file with BLMPIA. Recompletion in a new interval, a Form and zone. That proprises be strength for hirdinality give subsequent recompletion in a new interval, a Form and zone. The operation is both the work will be performed or provide the Bond No. on file with BLMPIA. Recompleted. Final Abandomment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is reaction.         Chevron formally requests to follow Onshore Order 2 Section "B - Casing and Camenting Requirements" described and the operator has determined to this request.       JS - 44 Gab Jub 20 Gab	TYPE OF SUBMISSION			TYPE OF	ACTION		=	
□ Subsequent Report       □ After Casing       □ Hydraulic Fracturing       □ Recamation       □ Well Integrity         □ Casing Repair       □ New Construction       □ Recamation       □ Omshore Order Variation         □ Casing Repair       □ New Construction       □ Temporarily Abandon       □ Comparity Abandon       □ Composed or Completed Operation. Clearly state all pertinent details, including estimated starting date or any proposed work and approximate duration thereof.       □ Omshore Order Variation         13. Describe Proposed or Completed Operation. Clearly state all pertinent details, including estimated starting date or any proposed work and approximate duration thereof.       □ Omshore Order Variation         14. The solution of the involved operations. If the operation results in a multiple completion or new interval. a Tom Mitch operation in a box of the with BLMMEA. Requirements.       □ Omshore Order Variation thereof.         15. Describe Proposed or Completeid Operation. Solution must be filed only the all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.       □ Omshore Order 2 Section "B - Casing and Cementing Requirements."         16. they require the site of the only the operation is no both the Surface and Intermediate casing string(s). A copy of the proposed program is attached to this request.       □ Office Hobbs         16. the sectors with 10. Solution is sectors within 2:1 days of the previous full BOP Test. No BOP components nor any threak will ever surgass 2:1 days between testing. A break test will not exceed 2:1 days.	M Notice of Intent	Acidize	🗖 Dee	pen	Product	tion (Start/Resume)	U Water Shu	ut-Off
Casing Ropain     Convert to Injection     Convert to Injection		Alter Casing	🗖 Hyd	raulic Fracturing	🗋 Reclam	ation	🗆 Well Inter	grity
Charge Plans     Chareach Plans     Charge Plans     Charge Plans     Charge Plans	Subsequent Report	Casing Repair	🗖 Nev	Construction			Onshore Or	ter Varia
13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated staring date of any proposed work and approximate duration thereof. If the proposal is to depen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No on file will ball MBIA. Required and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Soft No on file will ball MBIA. Requirements, including estimated, at Form 3160-4 must be filed only after all requirements, including reclamation, have been completed and the operator that determined that the site is ready for final inspection. Chevron formally requests to follow Onshore Order 2 Section "B - Casing and Cementing Requirements" operations in both the Surface and Intermediate casing string(s). A copy of the proposed program is attached to this request. We are also requesting a variance from the Onshore Order 2 where it states: "(A full BOP Test)shall be performed: when initially installed and whenever any seal subject to test pressure is broken." We propose to break lest if able to finish the next hole section within 21 days of the previous full BOP test. No BOP components nor any break will ever surgass 21 days between testing. A break test will only be performed on operations where BLM documentation states a 5M or less BOP can be utilized. Time between tests for a single test or full test will not exceed 21 days.         14. 1 hereby certify that the foregoing is true and correct. Electronic Submission #503959 verified by the BLM Well Information System For CHEVRON USA MC, sent to be hobbs Committed to AFMSS for processing by PRISCILLA PEREZ on 022/1/2020 (20PP136SEE) Name (Primed/Typed) LAURA BECERRA Title PETROLEUM ENGINEER Approved By. NDUNGU KA	Final Abandonment Notice			-		•		
Electronic Submission #503959 verified by the BLM Well Information System For CHEVRON USA INC, sent to the Hobbs Committed to AFMSS for processing by PRSCILLA PEREZ on 02/21/2020 (20PP1365SE)         Name (Printed/Typed)       LAURA BECERRA       Title       REGULATORY SPECIALIST         Signature       (Electronic Submission)       Date       02/21/2020         THIS SPACE FOR FEDERAL OR STATE OFFICE USE	operations in both the Surface attached to this request. We are also requesting a vari be performed: when initially in We propose to break test if al full BOP test. No BOP compo test will only be performed on	e and Intermediate casing ance from the Onshore O Installed and whenever any ble to finish the next hole inents nor any break will e operations where BLM do	string(s). A c rder 2 where y seal subject section within ever surpass 2 ocumentation	it states: "(A full to test pressure 21 days of the p 21 days between states a 5M or the	sed prograr BOP Test)s is broken." revious testing. A t	n is hall preak	, , ,,,,	
Name (Printed/Typed)       LAURA BECERRA       Title       REGULATORY SPECIALIST         Signature       (Electronic Submission)       Date       02/21/2020         THIS SPACE FOR FEDERAL OR STATE OFFICE USE         Approved By_NDUNGU KAMAU		# Electronic Submission For CHE	EVRON USA IN	C. sent to the Ho	obbs	•		
THIS SPACE FOR FEDERAL OR STATE OFFICE USE								
Approved By_NDUNGU KAMAU	Signature (Electronic	Submission)		Date 02/21/2	020			
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Office Hobbs 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.		THIS SPACE FO	OR FEDERA	L OR STATE	OFFICE U	SE		
certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.       Office Hobbs         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.	_Approved By_NDUNGU KAMAU_			TitlePETROLE	UM ENGIN	EER	Date 02	2/24/202
	certify that the applicant holds legal or eq	uitable title to those rights in the	s not warrant or e subject lease	Office Hobbs				
(Instructions on page 2) ** BLM REVISED **	Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent	U.S.C. Section 1212, make it a statements or representations as	crime for any post to any matter w	erson knowingly and ithin its jurisdiction.	willfully to m	ake to any department or	agency of the Ur	nited
	(Instructions on page 2) ** BLM REV	/ISED ** BLM REVISE	D ** BLM RI	EVISED ** BLN	A REVISEI	D ** BLM REVISE	o Ke	

#### Additional data for EC transaction #503959 that would not fit on the form

Wells/Facilities, continued

Agreement NMNM118722	Lease NMNM118722	Well/Fac Name, Number SD 15 FED P418 8H	API Number 30-025-46726-00-X1	Location Sec 15 T26S R32E SWSE 574FSL 2576FEL
NMNM118722	NMNM118722	SD 15 FED P418 9H	30-025-46728-00-X1	32.037167 N Lat, 103.662506 W Lon Sec 15 T26S R32E SWSE 574FSL 2551FEL 32.037167 N Lat, 103.662422 W Lon
NMNM118722	NMNM118722	SD 15 FED P418 10H	30-025-46729-00-X1	Sec 15 T26S R32E SWSE 574FSL 2526FEL 32.037167 N Lat. 103.662346 W Lon

#### 32. Additional remarks, continued

Details of these changes and revised 9 Pt. Drilling Plans for the wells below are attached to this request.

SD 15 FED P418 8H - 30-025-46726 SD 15 FED P418 9H - 30-025-46728 SD 15 FED P418 10H - 30-025-46729

#### Revisions to Operator-Submitted EC Data for Sundry Notice #503959

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	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	VARI NOI	VARI NOI
Lease:	NMNM118722	NMNM118722
Agreement:		
Operator:	CHEVRON USA INC 6301 DEAUVILLE BLVD MIDLAND, TX 79706 Ph: 432-687-7665	CHEVRON USA INC 1616 W. BENDER BLVD HOBBS, NM 88240 Ph: 575-263-0431
Admin Contact:	LAURA BECERRA REGULATORY SPECIALIST E-Mail: LBECERRA@CHEVRON.COM	LAURA BECERRA REGULATORY SPECIALIST E-Mail: LBECERRA@CHEVRON.COM
	Ph: 432-687-7665	Ph: 432-687-7665
Tech Contact:	LAURA BECERRA REGULATORY SPECIALIST E-Mail: LBECERRA@CHEVRON.COM	LAURA BECERRA REGULATORY SPECIALIST E-Mail: LBECERRA@CHEVRON.COM
	Ph: 432-687-7665	Ph: 432-687-7665
Location: State: County:	NM LEA	NM LEA
Field/Pool:	ANTELOPE RIDGE;UPR WOLFC	ANTELOPE RIDGE-WOLFCAMP
Well/Facility:	SD 15 FED P418 8H Sec 15 T26S R32E Mer NMP SWSE 574FSL 2576FEL	SD 15 FED P418 8H Sec 15 T26S R32E SWSE 574FSL 2576FEL 32.037167 N Lat, 103.662506 W Lon SD 15 FED P418 9H Sec 15 T26S R32E SWSE 574FSL 2551FEL 32.037167 N Lat, 103.662422 W Lon SD 15 FED P418 10H Sec 15 T26S R32E SWSE 574FSL 2526FEL 32.037167 N Lat, 103.662346 W Lon

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	CHEVRON USA INCORPORATED
	NMNM118722
LOCATION:	Section 15, T.26 S., R.32 E., NMP
	Lea County, New Mexico

WELL NAME & NO.:	SD 15 FED P418 8H
<b>SURFACE HOLE FOOTAGE:</b>	574'/S & 2576'/E
<b>BOTTOM HOLE FOOTAGE</b>	25'/N & 990'/W

WELL NAME & NO.:	SD 15 FED P418 9H
SURFACE HOLE FOOTAGE:	574'/S & 2551'/E
BOTTOM HOLE FOOTAGE	25'/N & 1650'/W

WELL NAME & NO.:	SD 15 FED P418 10H
SURFACE HOLE FOOTAGE:	574'/S & 2526'/E
<b>BOTTOM HOLE FOOTAGE</b>	25'/N & 2310'/W

#### A. CASING

#### **Casing Design:**

- 1. The 13-3/8 inch surface casing shall be set at approximately 630 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8</u> <u>hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The 9-5/8 inch intermediate casing shall be set at approximately 4475 feet. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

#### Page 1 of 4

#### **Option 1 (Single Stage):**

• Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

#### Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
  - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
     Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- In <u>Critical Cave/Karst Areas</u> cement must come to surface on the first three casing strings.
- 3. The minimum required fill of cement behind the 7-5/8 inch production casing is:

#### **Option 1 (Single Stage):**

• Cement to surface. If cement does not circulate, contact the appropriate BLM office.

#### **Option 2:**

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:

- Cement to surface. If cement does not circulate, contact the appropriate BLM office.
- 4. The minimum required fill of cement behind the  $5 1/2 \times 5$  inch production casing is:
  - Cement should tie-back **200 feet** into the previous casing. Operator shall provide method of verification.

#### **B. PRESSURE CONTROL**

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

#### 2.

#### **Option 1:**

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.

#### **Option 2:**

- 1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

#### C. SPECIAL REQUIREMENT (S)

#### **BOP Break Testing Variance (Note: For 5M BOP or less)**

- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer prior to the commencement of any BOP Break Testing operations.
- A full BOP test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOP test will be required.

# Delaware Basin Variance/Sundry for Federal Well



1

## Well Names:

Well Nam	API		
SD 15 FED P418	30-025-46726		
SD 15 FED P418	9H	30-025-46728	
SD 15 FED P418	10H	30-025-46729	

# **Rig:**

# Nabors X30

**CVX CONTACT:** 

Cody Leathers D&C Engineer – Nabors X30 Chevron North America Exploration and Production Co. MidContinent Business Unit 1400 Smith St, Houston, TX Office: 713.372.8263 CodyLeathers@chevron.com

## Summary of Changes to APD Submission or APD Variance

#### Full BOP test for all connection/seal breaks:

Chevron respectfully request to vary from the Onshore Order 2 where it states: "(A full BOP Test) shall be performed: when initially installed and whenever any seal subject to test pressure is broken."

We propose to break test if able to finish the next hole section within 21 days of the previous full BOP test. No BOP components nor any break will ever surpass 21 days between testing. A break test will consist of a 250 psi low  $l \ge 5,000$  psi high for 10 min each test against the connection that was broken when skidding the rig. Upon the first nipple up of the pad a full BOP test will be performed. A break test will not be performed on our last production section. A break test will only be performed on operations where BLM documentation states a 5M or less BOP can be utilized. We will test seals that have been broken individually between full BOP tests. Time between tests for a single test or full test will not exceed 21 days.

See drilling sequence below in <u>red</u> where it indicates the potential hole sections break testing can be performed given, they meet the above criteria.

	8H	9H	10H
Surface	3	2	1
Intermediate	4	<u>5</u>	<u>6</u>
Production	<u>7</u>	<u>8</u>	9

2

# Delaware Basin Variance/Sundry for Federal Well



## Well Names:

Well Nam	API		
SD 15 FED P418	8H	30-025-46726	
SD 15 FED P418	9H	30-025-46728	
SD 15 FED P418	10H	30-025-46729	

# Rig: Nabors X30

## **CVX CONTACT:**

Cody Leathers D&C Engineer - Nabors X30 Chevron North America Exploration and Production Co. MidContinent Business Unit 1400 Smith St, Houston, TX Office: 713.372.8263 CodyLeathers@chevron.com

## Request for execution

Chevron would like to formally request to follow Onshore Order 2 Section "B - Casing and Cementing Requirements" to wait to 500 psi compressive strength (CS) of the tail cement slurry, for primary cement operations in both the Surface and Intermediate casing string(s). WOC time is considered the time between bumping the plug (cement in place), until beginning to drill the shoe track. This will ensure that cement will be at sufficient strength prior to performing a shoe test and drilling ahead through the next hole section.

Sample engineering lab tests may be seen below, as provided by the cementing provider. Note: these numbers will vary slightly based on actual casing set depths and finlized cement lab tests for the particular slurry. Finalized 500 psi compressive strength times will be found on location with the Chevron Drill Site Representative via the cementing labs, Drilling Program and/or POA's (Plan of Action).

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	est Numb										Tes	t Date:			
керо	ort Numb	er:		WE	LL B	NFOI	RMA]	ΠΟΝ							
	Opera	tor: Chevro	on						Сош	nty:					
		PI #:							S	tate:	NM				
	Well Nai								Re	-	ed By:				
	•	ype: Tail								TVI		MD:			
		ype: Field								rict:	Odessa				
	Comme	nts: 10SEC	: 22	IOMIN	1: 23		101	<b>LPM: 3</b>	4		IORPI	M@141F:	32		
				TEST I	DATA	ANJ	) SCI	ÆDU	ЛЕ						
Time	e To Ten	np (min):	137				M	lud De	nsity	(Ib/gz	al):	9			
I	nitial Pr	ess (psi):	610			N	lix Wa	ter De	nsity	(Ib/ga	al):	8.34			
1	Final Pr	ess (psi):	5824								, pe: Rig	Water			
		(deg F):	155					Surf 1	Гетр	(deg	F):	80			
		(deg F):	141						Jo	b Ty	pe: Inte	rmediate			
	Соп	nments: UC	A: 80F to	155F in 4h	rs. Ap	ply full	PSI fr	om star	t of 5	529ps	i				
	-			SLURR	Y AP	T D	EST F	RESU	LTS	I					
		'C' + 0.10%	FL-66 + 0	.30% CD3;	2A + 0	.05% A	SA-30	01 <b>+ 0</b> .7	70% S	SMS +	- 0.75% I	<b>2-21 + 0.0</b>	05 gps F	P-6L + (	).005
	Densi	ty: 14.8 lb/	'gal			Pump	Time	(50 Be	:):						
	Yie	ld: 1.339 C	uFt/sk			Pump	Time	(70 B	:): 3:	50					
ľ	Mix Wat	er: 6.284 g	al/sk (55.	.76%)		Pump	Time (	100 Be	:):						
Total N	lix Liqu	id: 6.289 g	al/sk			-									
:	Fluid Lo	ss: cc/30 m	in			Fi	ee Wa	ter (m	l): 0	(Te	sted at 45	o Angle)			
Compr	ressive St	rength		Rheolog	sy (I	PL=Po	ver Lav	w, BP=	Bing	am P	lastic)				
Temp	Time	Strength	Type	Temp	600	300	- · ·	100	6	3	'n'	k'	Yp		Best
	4:47	50	UCA	80	102	67	55	42	27	22	0.216	0.168	29.0	40.5	BP
155					100	65	53		~ ~		0.017	A 161	27.6	20 4	
155	5:03	250	UCA	80	102	03	22	40	26	21	0.217	0.161	27.0	39.6	BP
	5:03 5:26	250 500	UCA UCA	80 ave	102 102 87	65 66 63	55 54 45	40 41 36	26 27 23	21 22 18			27.0 28.7 23.3	39.6 39.6 39.3	BP BP