UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2018 5. Lease Serial No.

Do not use thi	s form for proposals to drill II. Use form 3160-3 (APD) fo	or to re-enter an or such proposals.	All The state of t	ndian, Allottee or	Tribe Name
SUBMIT IN 1	TRIPLICATE - Other instruct	tions on page 2	S D If t	Init or CA/Agree	ment, Name and/or No.
1. Type of Well			2 8. Wel	I Name and No. EA 18 19 FED	P14 14H
☑ Oil Well ☐ Gas Well ☐ Oth					
2. Name of Operator CHEVRON USA INCORPORA	Contact: LAU ATED E-Mail: LBECERRA@C	IRA BECERRA CHEVRON.COM		I Well No. -025-44139-00	0-X1
3a. Address 6301 DEAUVILLE BLVD MIDLAND, TX 79706	3b. Ph	Phone No. (include area code): 432-687-7655		eld and Pool or E C025G09S263	Exploratory Area 3327G-UP WOLFCAMP
4. Location of Well (Footage, Sec., T.	, R., M., or Survey Description)		11. Co	ounty or Parish, S	State
Sec 18 T26S R33E NWNE 45 32.049534 N Lat, 103.611084			LE	A COUNTY, N	NM
12. CHECK THE AF	PPROPRIATE BOX(ES) TO	INDICATE NATURE O	F NOTICE, REPO	RT, OR OTH	ER DATA
TYPE OF SUBMISSION		TYPE OF	ACTION		
Notice of Intent ■	☐ Acidize	☐ Deepen	☐ Production (Sta	ırt/Resume)	☐ Water Shut-Off
Notice of Intent	☐ Alter Casing	☐ Hydraulic Fracturing	□ Reclamation		■ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete		Other
☐ Final Abandonment Notice	☐ Change Plans	□ Plug and Abandon	☐ Temporarily A	bandon	Change to Original A PD
	Convert to Injection	□ Plug Back	■ Water Disposal	ļ	10
13. Describe Proposed or Completed Ope If the proposal is to deepen directions Attach the Bond under which the woi following completion of the involved testing has been completed. Final Abdetermined that the site is ready for ficting Chevron respectfully requests 9-Point drilling plan is attached. - Casing design factors have the Annular clearance variance for crossover on the 5"x5.5" taper 7-5/8" shoe. Planned TOC will	ally or recomplete horizontally, give the will be performed or provide the E-coperations. If the operation results is andonment Notices must be filed on inal inspection. to change the casing designed with the following updates: Deen updated to reflect new cases or the 5.5" production string in the production string will be lo	subsurface locations and measure and No. on file with BLM/BIA in a multiple completion or recolly after all requirements, including this well to a 4-string dasing design the 7-5/8" intermediate 2 cated approximately 500'	red and true vertical de Required subsequent Impletion in a new inte ing reclamation, have t esign. The Iliner. The above the	pths of all pertine reports must be rval, a Form 3160	ent markers and zones. filed within 30 days 0-4 must be filed once
- Cement program updated to	reflect changes in the casing				
14. I hereby certify that the foregoing is	Electronic Submission #4668	INCORPORATED, sent to	the Hobbs		
Name (Printed/Typed) LAURA B	ECERRA	Title REGUL	ATORY SPECIAL	ST	
Signature (Electronic S	Submission)	Date 05/29/20	019		

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.

_Approved By_ZQTA STEVENS _

(Instructions on page 2) ** BLM REVISED **

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

TitlePETROLEUM ENGINEER



Date 05/31/2019

Additional data for EC transaction #466866 that would not fit on the form

32. Additional remarks, continued

- Formations tops in the 9-point plan have been updated utilizing data from pilot holes Chevron has drilled in the area.

Revisions to Operator-Submitted EC Data for Sundry Notice #466866

Operator Submitted

BLM Revised (AFMSS)

Sundry Type:

APDCH NOI

APDCH NOI

Lease:

NMNM27506

NMNM27506

Agreement:

Operator:

CHEVRON USA INC 6301 DEAUVILLE BLVD MIDLAND, TX 79706 Ph: 432-687-7665

CHEVRON USA INCORPORATED

6301 DEAUVILLE BLVD MIDLAND, TX 79706 Ph: 432.687.7100 Fx: 432-687-7221

Admin Contact:

LAURA BECERRA REGULATORY SPECIALIST E-Mail: LBECERRA@CHEVRON.COM

Ph: 432-687-7655

LAURA BECERRA REGULATORY SPECIALIST E-Mail: LBECERRA@CHEVRON.COM

Ph: 432-687-7655

Tech Contact:

LAURA BECERRA REGULATORY SPECIALIST E-Mail: LBECERRA@CHEVRON.COM

SANDERS TANK; UPR WOLFCAMP

Ph: 432-687-7655

LAURA BECERRA REGULATORY SPECIALIST E-Mail: LBECERRA@CHEVRON.COM

Ph: 432-687-7655

Location: State: County:

Field/Pool:

NM LEA

NM LEA

WC025G09S263327G-UP WOLFCAMP

Well/Facility:

SD EA 18 19 FED P14 14H

Sec 18 T26S R33E Mer NMP NWNE 455FNL 2555FEL

SD EA 18 19 FED P14 14H Sec 18 T26S R33E NWNE 455FNL 2555FEL 32.049534 N Lat, 103.611084 W Lon

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | Chevron USA Inc

LEASE NO.: | NM27506

WELL NAME & NO.: | SD EA 18 19 Fed P14 – 14H

SURFACE HOLE FOOTAGE: 455'/N & 2555'/E

BOTTOM HOLE FOOTAGE | 180'/S & 2374'/E, sec. 19

LOCATION: | Sec. 18, T. 26 S, R. 33 E

COUNTY: Lea County

COA

All previous COAs still apply expect the following:

H2S	∩ Yes	€ No	
Potash	• None	Secretary	C R-111-P
Cave/Karst Potential	CLow	• Medium	← High
Variance	None	• Flex Hose	Other
Wellhead	Conventional Conventional	Multibowl	Both
Other	□ 4 String Area	Capitan Reef	□ WIPP

A. Hydrogen Sulfide

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 870 feet (a minimum of 25 feet 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 **8** hours 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.
- The minimum required fill of cement behind the 9-5/8 inch intermediate casing is: Cement to surface. If cement does not circulate, contact the appropriate BLM office.
- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator shall filled 1/3rd casing with fluild while running intermediate casing to maintain collapse safety factor.

- 2. The minimum required fill of cement behind the 7-5/8 inch intermediate liner is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

Variance is approved for annular spacing between 7 5/8" x 5 ½".

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

C. 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. 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.
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8 intermediate casing shoe shall be 10,000 (10M) psi.

ZS 053119

Delaware Basin Changes to APD/COA for Federal Well



Well Name:

SD EA 18 19 FE	D P14	14H	30-025-44139
-----------------------	-------	-----	--------------

Rig: Nabors X30

CVX CONTACT:

Jason Hannen
MCBU D&C Engineer – Nabors X30
Chevron North America Exploration and Production Co.
MidContinent Business Unit

Office: (713) 372-1169 Cell: (432) 238-3004

Email: Jason.Hannen@chevron.com

Summary of Changes to APD Submission

Chevron respectfully requests to update the original 9-point plan submitted for this well. The following changes were made to the 9-point plan:

• The well will be a 4 string design as outlined in the following table

Purpose	From	To	Hole Size	Csg Size	Weight	Grade	Thread	Condition
Surface	0,	850'	17-1/2"	13-3/8"	54.5#	J55	BTC	New
Intermediate 1	0,	4900'	12-1/4"	9-5/8"	43.5#	L-80IC	LTC	New
Intermediate 2								
(Liner)	4,400'	11,500	8-1/2"	7-5/8"	29.7#	L-80IC	W-513	New
Production	0,	11,000	6-3/4"	5.5"	20#	P-110-ICY	TXP BTC	New
(Taper String)	11,000'	23,000'	6-3/4"	5°	18#	P-110 IC	W-521	New

- Casing design factors have been updated to reflect new casing design
- Annular clearance variance for the 5.5" production string in the 7-5/8" intermediate 2 liner. The crossover on the 5"x5.5" tapered production string will be located approximately 500' above the 7-5/8" shoe. Planned TOC will be above this crossover fulfilling BLM cementing requirement.
- Cement program updated to reflect changes in the casing design
- Formations tops in the 9-point plan have been updated utilizing data from pilot holes Chevron has drilled in the area.

Please see attached, updated 9-point plan. Design factors have also been updated for both designs.

CONFIDENTIAL - TIGHT HOLE DRILLING PLAN_v2 PAGE: 1

1. FORMATION TOPS

The estimated tops of important geologic markers are as follows:

FORMATION	SUB-SEA TVD	KBTVD	MD
Rustler		748	
Castile		2938	
Lamar		4750	
Bell Canyon		4782	
Cherry Canyon		5842	
Brushy Canyon		7393	
Bone Spring Limestone		8938	
Upr. Avalon		9018	
Top Bone Spring 1		9875	
Top Bone Spring 2		10440	
Top Bone Spring 3		11593	
Wolfcamp		12001	
Wolfcamp A1		12187	, , , , ,
Lateral TD (Wolfcamp A1)		12,187	22,300

2. ESTIMATED DEPTH OF WATER, OIL, GAS & OTHER MINERAL BEARING FORMATIONS

The estimated depths at which the top and bottom of the anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered are as follows:

Substance	Formation	Depth
Deepest E	xpected Base of Fresh Water	700
Water	Rustler	748
Water	Bell Canyon	4782
Water	Cherry Canyon	5842
Oil/Gas	Brushy Canyon	7393
Oil/Gas	Bone Spring Limestone	8938
Oil/Gas	Upr. Avalon	9018
Oil/Gas	Top Bone Spring 1	9875
Oil/Gas	Top Bone Spring 2	10440
Oil/Gas	Top Bone Spring 3	11593
Oil/Gas	Wolfcamp	12001
Oil/Gas	Wolfcamp A1	12187
Oil/Gas		

All shows of fresh water and minerals will be reported and protected.

3. **BOP EQUIPMENT**

Will have a minimum of a 10000 psi rig stack (see proposed schematic) for drill out below surface (Wolfcamp is not exposed until drillout of the intermediate casing). Could possibly utilize the 5000 psi rig stack (see proposed schematic) for drill out below surface casing due to the availabity of 10 M annular. (Wolfcamp is not exposed until drillout of the intermediate casing) Stack will be tested as specified in the attached testing requirements. Batch drilling of the surface, intermediate, and production will take place. A full BOP test will be performed unless approval from BLM is received otherwise. Flex choke hose will be used for all wells on the pad (see attached specs) BOP test will be conducted by a third party.

Chevron requests a variance to use a FMC UH2 Multibowl wellhead, which will be run through the rig foor on surface casing. BOPE will be nippled up and tested after cementing surface casing. Subsequent tests will be performed as needed, not to exceed 30 days. The field report from FMC and BOP test information will be provided in a subsequent report at the end of the well. Please see the attached wellhead schematic. An installation manual has been placed on file with the BLM office and remains unchanged from previous submittal.

CONFIDENTIAL -- TIGHT HOLE DRILLING PLAN_v2

PAGE:

4. CASING PROGRAM

a. The proposed casing program will be as follows:

Purpose	From	То	Hole Size	Csg Size	Weight	Grade	Thread	Condition
Surface	0'	850'	17-1/2"	13-3/8"	54.5 #	J55	BTC	New
Intermediate 1	0,	4900'	12-1/4"	9-5/8"	43.5#	L-80IC	LTC	New
Intermediate 2		Ì						
(Liner)	4,400'	11,500'	8-1/2"	7-5/8"	29.7 #	L-80IC	W-513	New
Production	0'	11,000'	6-3/4"	5.5"	20#	P-110-ICY	TXP BTC	New
(Taper String)	11,000'	23,000'	6-3/4"	5"	18#	P-110 IC	W-521	New

- b. Casing design subject to revision based on geologic conditions encountered.
- C. ***A "Worst Case" casing design for wells in a particular area is used below to calculate the Casing Safety Factors. If for any reason the casing design for a particular well requires setting casing deeper than the following "worst case" design, then the Casing Safety Factors will be recalcuated & sent to the BLM prior to drilling.
- d. Chevron will fill casing at a minimum of every 20 jts (840') while running for intermediate and production casing in order to maintain collapse SF.

SF Calculations based on the following "Worst Case" casing design:

Surface Casing:

1150' TVD

Intermediate Casing: Intermediate Liner:

5132' TVD 11,650' TVD

Production Casing:

23,000' MD/12,852' TVD (10,300' VS @ 90 deg inc)

4 String Design

Casing String	Min SF Burst	Min SF Collapse	Min SF Tension	Min SF Tri-Axial
Surface	1.48	2.10	4.91	1.80
Intermediate	1.52	1.87	2.79	1.83
Liner	1.33	2.59	1.60	1.66
Production	1.10	1.39	1.61	1.32

Min SF is the smallest of a group of safety factors that include the following considerations:

	Surf	Int (1)	Int 2 (Liner)	Prod
Burst Design				
Pressure Test- Surface, Int, Prod Csg	X	X	X	X
P external: Water		1		
P internal: Test psi + next section heaviest mud in csg				
Displace to Gas- Surf Csg	X			
P external: Water				
P internal: Dry Gas from Next Csg Point				İ
Frac at Shoe, Gas to Surf- Int Csg		X	Х	
P external: Water				
P internal: Dry Gas, 16 ppg Frac Gradient				
Stimulation (Frac) Pressures- Prod Csg				X
P external: Water			1	
P internal: Max inj pressure w/ heaviest injected fluid				
Tubing leak- Prod Csg				X
P external: Water	ì		İ	
P internal: Leak just below surf, 8.7 ppg packer fluid				
Collapse Design				
Full Evacuation	Х	X	Х	X
P external: Water gradient in cement, mud above TOC			İ	
P internal: none				
Cementing- Surf, Int, Prod Csg	X	X	X	X
P external: Wet cement			j	
P internal: water				
Tension Design				
100k lb overpull	X	x	x	X

5. **CEMENTING PROGRAM**

Slurry	[Туре	Тор	Bottom	Weight	Yield	%Excess	Sacks	Water	Additives
Surface		- -			(ppg)	(sx/cu ft)	Open Hole		gal/sk	
										Extender
										Antifoam
	Tail	Class C	0'	850'	14.8	1.33	50	650	6.57	Retarder
ntermediate								,		
										Antifoam
	- 1									Extender
	l						1			Salt
	Ī						1			Retarder
L	.ead	Class C	0'	4600	11.9	2.56	110	3704	14.69	Viscosifier
	- 1									Antifoam
	- !									Retarder
	Tail	Class C	4600	4900	14.8	1.33	110	<u>576</u>	6.29	Viscosifier
<u>Liner</u>	\rightarrow		,				1		· • · · · · · · · · · · · · · · · · · ·	_
							1			Antifoam
										Extender
										Salt
		.								Retarder
<u>L</u>	.ead	Class C	4,600'	11,150'	11.9	2.56	140	462	14.69	Viscosifier
			\ 			•				Antifoam
							ĺ			Extender
										Salt
					4					Retarder
	Tail	Class C	11,150'	11,650'	14.8	1.33	50	59	6.29	Viscosifier
										
Production			· · · · · · · · · · · · · · · · · · ·	··········	ſ					
										Antifoam
			<u> </u>							Dispersent
										Fluid Loss
	_[.		04.500:				4556		Retarder
	ead	Class H_	8,000'	21,500'	15.6	1.184	35	1558	5.18	Viscosifier
	Tail	Class H	21,500'	23,000'	16.0	1.903	20	110	7.45	Dispersen

 Final cement volumes will be determined by caliper.
 Surface casing shall have at least one centralizer installed on each of the bottom three joints starting with the shoe joint.

3. Production casing will have one horizontal type centralizer on every joint for the first 1000' from TD, then every other joint to EOB, and then every third joint to KOP. Bowspring type centralizers will be run from KOP to intermediate casing.

6. MUD PROGRAM

From	То	Туре	Weight	F. Vis	Filtrate
0'	850'	Spud Mud	8.3-8.7	32 - 34	NC - NC
850'	4,900	Brine	9.4-10.6	28 - 30	25-30
4,900'	11,500	Cut Brine	8.8-10.0	70 - 75	25 - 30
11,500'	22,300'	Oil Based Mud	12.0-14.8	70 - 75	25 - 30

A closed system will by utilized consisting of above ground steel tanks. All wastes accumulated during drilling operations will be contained in a portable trash cage and removed from location and deposited in an approved sanitary landfill. Sanitary wastes will be contained in a chemical porta-toilet and then hauled to an approved sanitary landfill.

All fluids and cuttings will be disposed of in accordance with New Mexico Oil Conservation Division rules and regulations.

A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.

Visual mud monitoring equipment shall be in place to detect volume changes indicating loss or gain of circulating fluid volume. When abnormal pressures are anticipated -- a pit volume totalizer (PVT), stroke counter, and flow sensor will be used to detect volume changes indicating loss or gain of circulating fluid volume.

A weighting agent and lost circulating material (LCM) will be onsite to mitigate pressure or lost circulation as hole conditions dictate.

7. TESTING, LOGGING, AND CORING

The anticipated type and amount of testing, logging, and coring are as follows:

- a. Drill stem tests are not planned.
- b. The logging program will be as follows:

TYPE	Logs	Interval	Timing	Vendor
Mudlogs	2 man mudlog	Int Csg to TD	Drillout of Int Csg	TBD
LWD	MWD Gamma	Int. and Prod. Hole	While Drilling	TBD

- c. Conventional whole core samples are not planned.
- d. A Directional Survey will be run.

8. ABNORMAL PRESSURES AND HYDROGEN SULFIDE

a. No abnormal pressures or temperatures are expected. Estimated BHP at intermediate TD is:
 b. No abnormal pressures or temperatures are expected. Estimated BHP at production TD is:
 b. 8650
 c. 8650

b. Hydrogen sulfide gas is not anticipated. An H2S Contingency plan is attached with this APD in the event that H2S is encountered