Do not u	UNITED STATES DEPARTMENT OF THE INTERI BUREAU OF LAND MANAGEMEN DRY NOTICES AND REPORTS O ise this form for proposals to drill or ad well. Use form 3160-3 (APD) for s	NT ON WELLS r to re-enter an	/2020 OMB N	APPROVED IO. 1004-0137 anuary 31, 2018 or Tribe Name
SUBM	IT IN TRIPLICATE - Other instruction	ns on page 2	7. If Unit or CA/Agre	eement, Name and/or No.
Type of Well Gas Well Gas Well Gas Well CHEVRON USA INCOF	Contact: LAURA		8. Well Name and No. SND 12 01 FED 0 9. API Well No. 30-015-45537-0	002 3H
3a. Address 6301 DEAUVILLE BLVI MIDLAND, TX 79706		none No. (include area code) 132-687-7665	10. Field and Pool or WILDCAT	
	Sec., T., R., M., or Survey Description)		11. County or Parish,	State
Sec 12 T24S R31E SES 32.227341 N Lat, 103.7			EDDY COUNT	Y, NM
12. CHECK T	HE APPROPRIATE BOX(ES) TO IN	DICATE NATURE OF	NOTICE, REPORT, OR OTI	HER DATA
TYPE OF SUBMISSION	1	TYPE OF	ACTION	
 Notice of Intent Subsequent Report Final Abandonment No 13. Describe Proposed or Completing the proposal is to deepen di Attach the Bond under which following completion of the i testing has been completed. If determined that the site is reading that the site is readin	Acidize Alter Casing Alter Casing Casing Repair Change Plans Convert to Injection Convert to Injection Convert to Injection fred Operation: Clearly state all pertinent details rectionally or recomplete horizontally, give sub the work will be performed or provide the Bond volved operations. If the operation results in a rinal Abandonment Notices must be filed only a dy for final inspection.	 Deepen Hydraulic Fracturing New Construction Plug and Abandon Plug Back , including estimated starting surface locations and measurd d No. on file with BLM/BIA. multiple completion or reconfiter all requirements, including 	 Production (Start/Resume) Reclamation Recomplete Temporarily Abandon Water Disposal gdate of any proposed work and approted and true vertical depths of all perting. Required subsequent reports must be mpletion in a new interval, a Form 316 ng reclamation, have been completed and true vertical depths of all perting reclamation, have been completed and true vertical depths of all perting reclamation, have been completed and true vertical depths of all perting reclamation. 	nent markers and zones. e filed within 30 days 50-4 must be filed once
14. I hereby certify that the fore Name(<i>Printed/Typed</i>) LAL	Electronic Submission #507824 For CHEVRON USA INC Committed to AFMSS for processing b	CORPORATED, sent to the sent t	he Carlsbad	
Signature (Elec	tronic Submission)	Date 03/20/20)20	
	THIS SPACE FOR FEI	DERAL OR STATE	OFFICE USE	
	attached. Approval of this notice does not warr of this notice does not warr of the subject of those rights in the subject	ant or	JM ENGINEER	Date 05/03/2020

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.

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

5/08/2020 RWP Accepted

Revisions to Operator-Submitted EC Data for Sundry Notice #507824

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMNM104684	NMNM104684
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
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 EDDY	NM EDDY
Field/Pool:	COTTON DRAW;BONE SPRING	WILDCAT
Well/Facility:	SND 12 01 FED 002 3H Sec 12 T24S R31E Mer NMP SESW 984FSL 1690FWL	SND 12 01 FED 002 3H Sec 12 T24S R31E SESW 984FSL 1690FWL 32.227341 N Lat, 103.734604 W Lon

Pad Summary

The table below lists all the wells for the given pad and their respective name and TVD's (ft) for their production target intervals:

Well Name(s)	Target TVD	Formation Desc.
SND 12 01 FED 002 1H	AVALON	
SND 12 01 FED 002 2H	AVALON	
SND 12 01 FED 002 3H	AVALON	9036

1. FORMATION TOPS

The estimated tops of important geologic markers are as follows:

Elevation: 3552 ft

FORMATION	SUB-SEA TVD	TVD	MD	LITHOLOGIES	MIN. RESOURCES	PROD. FORMATION
Rustler	2786	766	766	ANHYD	N/A	
Castile	562	2,990	2,990	SALT	N/A	
Lamar	-1023	4,575	4,575	LIMESTONE	N/A	
Bell Canyon	-1074	4,626	4,626	SAND STONE	N/A	
Cherry Canyon	-1928	5,480	5,480	SAND STONE	N/A	
Brushy Canyon	-3208	6,760	6,760	SAND STONE	N/A	
Bone Spring Lime	-4871	8,423	8,475	SHALE/LIMESTONE	N/A	
Avalon	-4891	8,443	8,545	SHALE	Oil	
Lateral TD (Lower Avalon)	-5484	9,036	18,811	SHALE	Oil	Yes

WELLBORE LOCATIONS	SUB-SEA TVD	RKB TVD	MD
SHL	3552	-	-
KOP	-4911	8,463	8,520
FTP	-5484	9,036	9,420
LTP	-5484	9,036	18,761

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:

Substand	Depth		
Deepe	st Exped	500	
Water		Cherry Canyon	5,480
Oil/Gas		Avalon	8,443
Oil/Gas		Lateral TD (Lower Avalon)	9,036

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

3. BOP EQUIPMENT

Chevron will have a minimum of a 5,000 psi rig stack (see proposed schematic) for drill out below surface casing. The 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 per hole section, unless approval from BLM is received otherwise. Flex choke hose will be used for all wells on the pad (see attached specs and variance). BOP test will be conducted by a third party.

Chevron requests a variance to use a FMC Technologies UH-S Multibowl wellhead, which will be run through the rig floor 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 Technologies 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. All tests performed by third party.

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'	16" or 17.5	13-3/8"	54.5 #	J-55	BTC	New
Intermediate	0'	8,423'	12-1/4"	9-5/8"	40.0 #	L80IC	LTC	New
Production	0'	18,811'	8-1/2"	5-1/2"	20.0 #	P-110	TXP BTC	New

Proposed	Hole Size	Casing Size	Top (MD)	Btm (MD)	Top (TVD)	Btm (TVD)	Top (SSTVD)	Btm (SSTVD)	Grade	Weight	Joint type
Surface	16" or 17.5	13-3/8"	0'	850'	0'	850'	3,552'	2,702'	J-55	54.5 #	BTC
Intermediate	12-1/4"	9-5/8"	0'	8,423'	0'	8,423'	3,552'	-4,871'	L80IC	40.0 #	LTC
Production	8-1/2"	5-1/2"	0'	18,811'	0'	9,036'	3,552'	-5,484'	P110	20.0 #	TXP-BTC

b. Casing design subject to revision based on geologic conditions encountered.

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 ^{C.} design for a particular well requires setting casing deeper than the following "worst case" design, then the Casing Safety Factors will be

recalculated & 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:	1,550'	ftTVD	(maximum depths)
Intermediate Casing:	9,145'	ftTVD	(maximum depths)
Production Casing:	23,551'	ftMD	(maximum depths)

Casing String	Min SF Burst	Min SF Collapse	Min SF Tension	Min SF Tri-Axial
Surface	1.65	1.58	1.64	1.88
Intermediate	1.44	2.42	1.79	1.70
Production	1.29	1.75	2.16	1.54

The following worst case load cases were considered for calculation of the above Min. Safety Factors:

Burst Design	Surf	Int	Prod
Pressure Test- Surface, Int, Prod Csg			
P external: Mud weight above TOC, PP below	Х	Х	Х
P internal: Test psi + next section heaviest mud in csg			
Displace to Gas- Surf Csg			
P external: Mud weight above TOC, PP below	Х		
P internal: Dry Gas from Next Csg Point			
Gas over mud (60/40) - Int Csg			
P external: Mud weight above TOC, PP below		Х	
P internal: 60% gas over 40% mud from hole TD PP			
Stimulation (Frac) Pressures- Prod Csg			
P external: Mud weight above TOC, PP below			Х
P internal: Max inj pressure w/ heaviest injected fluid			
Tubing leak- Prod Csg (packer at KOP)			
P external: Mud weight above TOC, PP below			Х
P internal: Leak just below surf, 8.45 ppg packer fluid			
Collapse Design	Surf	Int	Prod
Full Evacuation			
P external: Mud weight gradient	Х	Х	Х
P internal: none			
Cementing- Surf, Int, Prod Csg			
P external: Wet cement	Х	Х	Х
P internal: displacement fluid - water			
Tension Design	Surf	Int	Prod
100k lb overpull			
	Х	Х	Х

ONSHORE ORDER NO. 1 Chevron SND 12 01 FED 002 3H Eddy County, NM

5. CEMENTING PROGRAM

Slurry	Туре	Тор	Bottom	Sacks	Yield	Density	%Excess	Water	Volume	Additives
Surface					(cu ft/sk)	(ppg)	Open Hole	gal/sk	cuft	
Tail	Class C	0'	850'	884	1.34	14.8	125	6.40	1184	Extender, Antifoam, Retarder
Intermediate Csg										
			Planne	d Single sta	age cement					
1st Lead	Class C	0'	7,423'	382	2.56	11.9	0	14.66	978	Extender, Antifoam, Retarder, Viscosifier
1st Tail	Class C	7,423'	8,423'	382	1.33	14.8	50	6.38	507	Extender, Antifoam, Retarder, Viscosifier
		Sec	cond Stage	Intermediat	e Cement C	Dotion 1	•		•	•
										Extender,
2nd Lead (contingent)	Class C	0'	3,533'	864	2.56	11.9	100	14.66	2213	Antifoam, Retarder, Viscosifier
2nd Tail (contingent)	Class C	3,533'	4,533'	382	1.33	14.8	50	6.38	507	Extender, Antifoam, Retarder, Viscosifier
		Sec	cond Stage	Intermediat	e Cement C	ption 2				
2nd Lead (Contingent top out job)	Class C	0'	6,760'	3184	1.33	14.8	100	14.66	4235	Extender, Antifoam, Retarder, Viscosifier
Production										
Lead 1	Class C	7,000'	8,500'	877	2.46	11.9	50	14.05	2158	Extender, Antifoam, Retarder, Viscosifier
Not	te: Cement pumped wil	l be aimed t	o surpass C	COA require	ments, only	"minimum"	' TOC values	s are denot	ed here	
Lead 2	Class C	8,500'	17,811'	1557	1.85	13.2	35	9.87	2880	Extender, Antifoam, Retarder, Viscosifier
Tail	Acid Sol Class H	17,811'	18,811'	115	2.19	15	10	9.54	252	Extender, Antifoam, Retarder, Viscosifier

1. Final cement volumes will be determined by caliper.

2. 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 solid body type centralizer on every joint in the lateral, then every other joint

in curve. Bowspring type centralizers will be run from KOP to intermediate casing and surface.

6. MUD PROGRAM

From	То	Туре	Weight	Viscosity	Filtrate	Notes
0'	850'	Fresh water mud	8.3 - 9.0	28-30	N/C	
850'	8,423'	Brine/OBM	8.3 - 10	28-31	15-25	
						Due to wellbore stability, the mud program may exceed the MW window needed to maintain overbalance to pore
8,423'	18,811'	OBM	8.5 - 11	10-15	15-25	pressure

A closed system will be used 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. And transportating of E&P waste will follow EPA regulations and accompanying manifests.

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
Mudlogs	2 man mudlog	Surface casing shoe	While drilling or
		through prod hole TD	circulating
LWD	MWD Gamma	Int. and Prod. Hole	While Drilling

c. Conventional whole core samples are not planned.

d. A directional survey will be run.

8. ABNORMAL PRESSURES AND HYDROGEN SULFIDE

a. No abnormal pressure or temperatures are expected. Estimated BHP is:

4,171 psi b. Hydrogen sulfide gas is not anticipated. An H2S Contingency plan is attached with this APD in the event that H2S is encountered