Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

5. Lease Serial No.
NMNM121473

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
HH SO 10 15 FED 002 6H

2. Name of Operator
CHEVRON USA INCORPORATED
Contact: LAURA BECERRA
E-Mail: LBECERRA@CHEVRON.COM

9. API Well No.
30-015-44367-00-X1

3a. Address
6301 DEAUVILLE BLVD
MIDLAND, TX 79706

3b. Phone No. (include area code)
Ph: 432-687-7665

10. Field and Pool or Exploratory Area
PURPLE SAGE-WOLFCAMP (GAS)

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 3 T26S R27E SWSW 314FSL 833FWL
32.064869 N Lat, 104.184265 W Lon

11. County or Parish, State
EDDY COUNTY, NM

BLM Field Office
NMOCD Artesia

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Drilling Operations
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen 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 with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Chevron respectfully requests to change the casing running plan to include a 7-5/8" 29.7# P-110 Liner set in previous casing from 8,966' to 10,050'. Please see attached 9-Point Plan for details.

RECEIVED

SEP 14 2018

DISTRICT II-ARTESIA O.C.D.

GC 9-17-18
Accepted for record - NMOCD

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #434574 verified by the BLM Well Information System
For CHEVRON USA INCORPORATED, sent to the Carlsbad
Committed to AFMSS for processing by ZOTA STEVENS on 09/11/2018 (18ZS0144SE)

Name *(Printed/Typed)* LAURA BECERRA — Title PERMITTING SPECIALIST

Signature (Electronic Submission) — Date 09/10/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ZOTA STEVENS — Title PETROLEUM ENGINEER — Date 09/11/2018

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 Carlsbad

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 ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Delaware Basin
Changes to APD/COA for Federal Well

Chevron

Well Info:

Well Name	API Number
HH SO 10 15 FED 002 6H	3001544367

Rig: Patterson 815

Chevron Contact:

Brett Herman
Drilling & Completions Engineer
Chevron Mid-Continent Business Unit
Drilling & Completions

Cell: (832) 457-0778
Email: brett.herman@chevron.com

Summary of Changes to APD Submission

Chevron respectfully requests to change the casing running plan to include a 7-5/8" 29.7# P-110 Liner set in previous casing from 8,966' to 10,050'. Please see attached 9-Point Plan for details.

Changes Summary

Summary: Run a 7-5/8" 29.7# P-110 Liner set in previous casing from 8,966' to 10,050'. Please see attached 9-Point Plan for details.

FORMATION	SUB-SEA TVD	KBTVD	MD
Castille		1083	
Lamar		2276	
Bell		2330	
Cherry		3118	
Brushy		4177	
Bone Spring/Avalon		5919	
First Bone Spring Sand		6667	
Second Bone Spring Sand		7149	
Third Bone Spring Carbonate		8600	
Third Bone Spring Sand		8651	
Wolfcamp A		9008	
Wolfcamp C		9769	
Wolfcamp D		9920	
Lateral TVD Wolfcamp D		10,112'	20,495'

4. **CASING PROGRAM**

Purpose	From	To	Hole Size	Csg Size	Weight	Grade	Thread	Condition
Surface	0'	450'	17-1/2"	13-3/8"	54.5 #	K-55	STC	New
Intermediate	0'	9,266'	12-1/4"	9-5/8"	43.5 #	L-80	LTC	New
Intermediate Liner	8,966'	10,050'	8-1/2"	7-5/8"	29.7 #	P-110	TSH513	New
Production	0'	20,495'	6-3/4"	5-1/2"x5"	20# x 18#	P-110 x P-110IC	TXP x Wedge 521	New

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

Surface Casing: 450'
Intermediate Casing: 10370
Intermediate Liner : 10405
Production Casing: 21,291' MD/10,369' TVD

Casing String	Min SF Burst	Min SF Collapse	Min SF Tension	Min SF Tri-Axial
Surface	1.41	5.09	3.56	1.54
Intermediate	1.2	1.74	1.81	1.29
Intermediate Liner	2.33	2.07	2.11	2.72
Production	1.11	1.7	1.71	1.2

Burst Design	Surf	Int	Int Liner	Prod
Pressure Test- Surface, Int, Prod Csg P external: Water P internal: Test psi + next section heaviest mud in csg	X	X	X	X
Displace to Gas- Surf Csg P external: Water P internal: Dry Gas from Next Csg Point	X			
Frac at Shoe, Gas to Surf- Int Csg P external: Water P internal: Dry Gas, 15 ppg Frac Gradient		X	X	
Stimulation (Frac) Pressures- Prod Csg P external: Water P internal: Max inj pressure w/ heaviest injected fluid				X
Tubing leak- Prod Csg (packer at KOP) P external: Water P internal: Leak just below surf, 8.7 ppg packer fluid				X
Collapse Design				
Full Evacuation P external: Water gradient in cement, mud above TOC P internal: none	X	X	X	X
Cementing- Surf, Int, Prod Csg P external: Wet cement P internal: water	X	X	X	X
Tension Design				
100k lb overpull	X	X	X	X

5. **CEMENTING PROGRAM**

Slurry	Type	Cement Top	Cement Bottom	Weight	Yield	%Excess	Sacks	Water
Tail	Class H	8,966'	10,050'	15.6	1.2	35	168	5.39

6. **MUD PROGRAM**

From	To	Type	Weight	F. Visc	Filtrate
9,300'	10,050'	OBM	12.5 - 14.4	50 -70	5.0 - 10
10,050'	20,613'	OBM	12.5 - 14.4	50 -70	5.0 - 10