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.

Carlsbad Field Office
OCD Artesia

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other	5. Lease Serial No. NMNM121473
	6. If Indian, Allottee or Tribe Name
	7. If Unit or CA/Agreement, Name and/or No.
	8. Well Name and No. HH SO 10 P3 0023H
2. Name of Operator CHEVRON U.S.A. INC. <4323> Contact: DORIAN K FUENTES E-Mail: DJVO@CHEVRON.COM	9. API Well No. 30-015-43932
3a. Address ATTN: DORIAN K. FUENTES 6301 DEAUVILLE BLVD MIDLAND, TX 79706 3b. Phone No. (include area code) Ph: 432-687-7631	10. Field and Pool or Exploratory Area WC-015S262734P;WFCMP(GAS)
4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)* Sec 3 T26S R27E Mer NMP NENW 528FSL 2066FWL 32.065407 N Lat, 104.180275 W Lon	11. County or Parish, State EDDY COUNTY, NM

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 Change to Original A PD
	☐ 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 U.S.A. INC., respectfully requests to make changes to the original permit approved 10/11/2016.

Chevron requests to change:
BHL - from 180 FSL & 1652 FWL to 280 FSL & 2178 FWL
PFTP- from 330 FNL & 1650 FWL to 330 FNL & 2178 FWL
PLTP- from 330 FSL & 1653 FWL to 330 FSL & 2178 FWL

Please refer to the attached C-102 to reflect the new change request.

Chevron requests to change the proposed depth:
TVD - from 9176 to 9122

- All previous COAs still apply. Additional COA is not required

NM OIL CONSERVATION
ARTESIA DISTRICT
FEB 06 2017
RECEIVED

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #359162 verified by the BLM Well Information System
For CHEVRON U.S.A. INC. <4323>, sent to the Carlsbad
Committed to AFMSS for processing by DEBORAH MCKINNEY on 12/13/2016 ()

Name *(Printed/Typed)* DORIAN K FUENTES — Title REGULATORY SPECIALIST

Signature (Electronic Submission) — Date 11/29/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

APPROVED

Approved By Mustafa Hague — Title PETROLEUM ENGINEER — Date 2/1/2017

FEB 1 2017

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 CFO

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

Additional data for EC transaction #359162 that would not fit on the form

32. Additional remarks, continued

MD - from 19818 to 19488.68

Please refer to the attached drilling plan to comply with Onshore Order #1.

Should questions arise, please contact djvo@chevron.com or 432-687-7631.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone (575) 748-1283 Fax (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone (505) 334-6178 Fax (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name	
30-015 43332	98146	WC-015 S26 [illegible]; Wolfcamp (GAS)	
[4] Property Code	[5] Property Name		[6] Well Number
317844	HH SO 10 P3		23H
[7] OGRID No.	[8] Operator Name		[9] Elevation
4323	CHEVRON U.S.A. INC.		3278'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	3	26 SOUTH	27 EAST, N.M.P.M.		528'	SOUTH	2066'	WEST	EDDY

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	15	26 SOUTH	27 EAST, N.M.P.M.		280'	SOUTH	2178'	WEST	EDDY

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
640			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

[16]

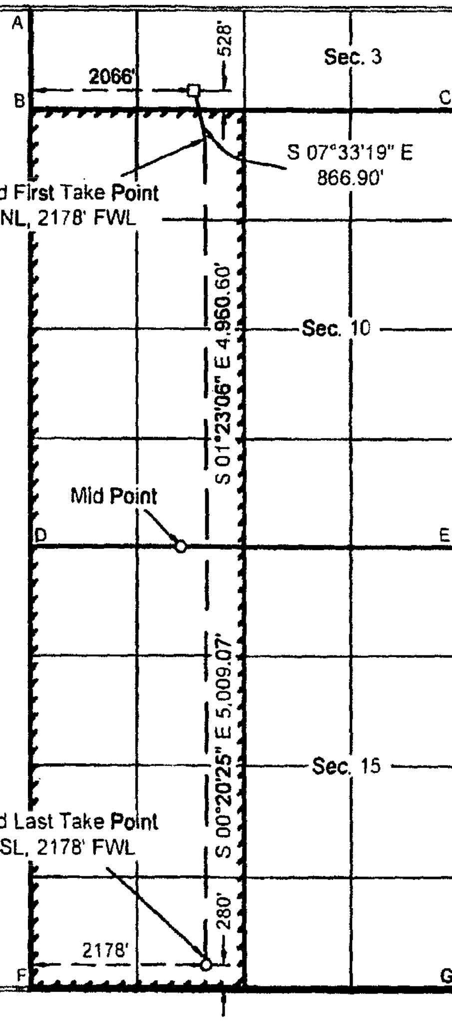
HH SO 10 P3 23H WELL		
X=	547,566	NAD 27
Y=	387,509	
LAT.	32.065285	
LONG.	104.179782	
X=	588,750	NAD83
Y=	387,566	
LAT	32.065407	
LONG.	104.180275	
ELEVATION +3278' NAVD 88		

CORNER COORDINATES TABLE (NAD 27)

A - Y=392447.75, X=545573.63
B - Y=387009.20, X=545492.91
C - Y=386937.82, X=550774.76
D - Y=381711.59, X=545622.05
E - Y=381659.95, X=550943.63
F - Y=376414.09, X=545653.53
G - Y=376383.44, X=550941.76

Mid Point
Y=381690.46, X=547800.22
First Take Point
Y=386649.61, X=547680.32
Last Take Point
Y=376731.48, X=547629.68

PROPOSED BOTTOM HOLE LOCATION		
X=	547,830	NAD 27
Y=	376,681	
LAT	32.035518	
LONG.	104.178981	
X=	589,014	NAD83
Y=	376,738	
LAT	32.035640	
LONG.	104.179473	



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

[signature] [date]
Signature Date

[illegible]
Printed Name

[illegible]
E-mail Address

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

01.05.2016
Date of Survey

Signature and Seal of Professional Surveyor:

ROBERT L. LASTRAPES
NEW MEXICO
23006
PROFESSIONAL SURVEYOR
1-18-2016

23006
Certificate Number

1. FORMATION TOPS

The estimated tops of important geologic markers are as follows:

FORMATION	SUB-SEA TVD	KBTVD	MD
Castille		704	
Lamar		2289	
Bell		2329	
Cherry		3164	
Brushy		4354	
Bone Spring/Avalon		5944	
First Bone Spring Sand		6834	
Second Bone Spring Sand		7534	
hird Bone Spring Carbonate Marke		8439	
Third Bone Spring Carbonate		8549	
Third Bone Spring Sand		8669	
Wolfcamp A		8999	
Lateral TVD Wolfcamp A		9122	19488.68

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 Expected Base of Fresh Water		450
Water	Castille	704
Water	Cherry Canyon	3164
Oil/Gas	Brushy Canyon	4354
Oil/Gas	Bone Spring Limestone	6834
Oil/Gas	Second Bone Spring Sand	7534
Oil/Gas	Third Bone Spring Carbonate Marker	8439
Oil/Gas	Harkey Sand	8549
Oil/Gas	Wolfcamp A	8999

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

3. BOP EQUIPMENT

PLEASE REFERENCE MDP

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'	9,015'	12-1/4"	9-5/8"	43.5 #	L-80	TXP	New
Production	0'	19,489'	8-1/2"	5-1/2"	20.0 #	P-110	TXP	New

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

Surface Casing: 450'
Intermediate Casing: 9015'
Production Casing: 19488.68' MD/9,122' TVD (10,832' VS @ 90.3 deg inc)

Casing String	Min SF Burst	Min SF Collapse	Min SF Tension	Min SF Tri-Axial
Surface	1.82	5.11	3.97	2.31
Intermediate	2.9	1.34	1.79	2.22
Production	1.26	1.66	2.54	1.31

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

	Surf	Int	Prod
Burst Design			
Pressure Test- Surface, Int, Prod Csg P external: Water P internal: Test psi + next section heaviest mud in csg	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	
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
Cementing- Surf, Int, Prod Csg P external: Wet cement P internal: water	X	X	X
Tension Design			
100k lb overpull	X	X	X

5. **CEMENTING PROGRAM**

Slurry	Type	Cement Top	Cement Bottom	Weight	Yield	%Excess	Sacks	Water
Surface				(ppg)	(sx/cu ft)	Open Hole		gal/sk
Tail	Class C	0'	450'	14.8	1.33	50	356	6.37
Intermediate								
Stage 2 Lead	50:50 Poz: Class C + Antifoam, Extender, Salt, Retarder	0'	1,100'	11.9	2.43	50	213	14.21
Stage 2 Tail	Class C + Antifoam, Retarder, Viscosifier	1,100'	2,100'	14.8	1.33	0	235	6.37
DV Tool		2,100'						
Stage 1 Lead	50:50 Poz: Class H + Extender, Antifoam, Retarder, Salt, Viscosifier	2,100'	8,015'	11.9	2.43	100	1524	13.76
Stage 1 Tail	Class H + Retarder, Extender, Dispersant	8,015'	9,015'	15.6	1.21	50	389	5.54
Production								
Lead	50:50 Poz: Class H + Extender, Antifoam, Dispersant, , Retarder	7,015'	8,015'	14.5	1.21	100	430	5.54
Tail	Class H + Viscosifier, Antifoam, Dispersant, Fluid Loss, Retarder, Expanding Agent	8,015'	19,489'	15.6	1.2	50	3377	5.30

6. MUD PROGRAM

From	To	Type	Weight	F. Vis	Filtrate
0'	450'	Spud Mud	8.3 - 8.7	32 - 34	NC - NC
450'	9015'	OBM	9.0 - 9.5	50 -70	5.0 - 10
9015'	19,489'	OBM	10.0 - 13.5	50 -70	5.0 - 10

7. TESTING, LOGGING, AND CORING

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

8. ABNORMAL PRESSURES AND HYDROGEN SULFIDE

PLEASE REFERENCE MDP