

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDY 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.

Field Office
D Artesia

5. Lease Serial No.
NNNM121473

6. Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. HH SO 10 P3 15H
2. Name of Operator CHEVRON USA INCORPORATED Contact: DORIAN K FUENTES E-Mail: DJVO@CHEVRON.COM		9. API Well No. 30-015-43930-00-X1
3a. Address 15 SMITH ROAD MIDLAND, TX 79705	3b. Phone No. (include area code) Ph: 432-687-7631	10. Field and Pool or Exploratory Area WILDCAT
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 3 T26S R27E SESW 628FSL 2066FWL		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			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

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 recompleat 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 recompleat 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 & 2430' FWL
PFTP- from 330' FNL & 1650' FWL to 330' FNL & 2430' FWL
PLTP- from 330' FSL & 1653' FWL to 330' FSL & 2430' FWL

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

NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 06 2017

RECEIVED

Chevron requests to change the proposed depth and the drilling plan to comply with Onshore #1:

- All previous COA's still apply. Additional COA's not required

14. I hereby certify that the foregoing is true and correct.		Electronic Submission #359153 verified by the BLM Well Information System For CHEVRON USA INCORPORATED, sent to the Carlsbad Committed to AFMSS for processing by DEBORAH MCKINNEY on 12/13/2016 (17DLM0405SE)	
Name (Printed/Typed)	DORIAN K FUENTES	Title	REGULATORY SPECIALIST
Signature	(Electronic Submission)	Date	11/29/2016
APPROVED			
THIS SPACE FOR FEDERAL OR STATE OFFICE USE			
Approved By <u>MUSTAFA HAQUE</u>		Title	PETROLEUM ENGINEER
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.		Date	02/02/2017
		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)

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

Additional data for EC transaction #359153 that would not fit on the form

32. Additional remarks, continued

TVD - from 10177 to 10122
MD - from 21043 to 20514

Please refer to the attached drilling plan.

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) 334-6179
District IV
1220 S St Francis Dr. Santa Fe, NM 87505
Phone (505) 476-3461 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 3C 015 43930		2 Pool Code 9E14C		3 Pool Name W.R. (115) 52681341, WILPHAMP (GAS)	
4 Property Code 317044		5 Property Name HH SO 10 P3			6 Well Number 15H
7 GRID No. 1323		8 Operator Name CHEVRON U.S.A. INC.			9 Elevation 3279'

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.		628'	SOUTH	2066'	WEST	EDDY

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	2430'	WEST	EDDY

11 Dedicated Acres 640	12 Joint or Infill	13 Consolidation Code	14 Order No.
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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.

<p>HH SO 10 P3 15H WELL</p> <p>X= 547,568 NAD 27 Y= 387,609 LAT. 32.065559 LONG. 104.179777</p> <p>X= 588,752 NAD83 Y= 387,666 LAT. 32.065681 LONG. 104.180269</p> <p>ELEVATION +3279' NAVD 88</p>		<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and correct 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:</p> <p>Signature: <i>[Signature]</i> Date: 11-29-2011</p> <p>Printed Name: <i>[Name]</i></p> <p>E-mail Address: <i>[Email]</i></p> <hr/> <p>18 SURVEYOR CERTIFICATION</p> <p>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.</p> <p>Date of Survey: 01.05.2016</p> <p>Signature and Seal of Professional Surveyor: <i>[Signature]</i></p> <p>Certificate Number: 23006</p>
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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=381688.01, X=548052.24
First Take Point
Y=386646.20, X=547932.48
Last Take Point
Y=376730.02, X=548081.69

PROPOSED BOTTOM HOLE LOCATION	
X=	548,082 NAD 27
Y=	376,680
LAT.	32.035513
LONG.	104.178168
X=	589,266 NAD83
Y=	376,737
LAT.	32.035635
LONG.	104.178659

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	
Third Bone Spring Carbonate Marker		8439	
Third Bone Spring Carbonate		8549	
Third Bone Spring Sand		8669	
Wolfcamp A		8999	
Wolfcamp D		9919	
Lateral TVD Wolfcamp D		10122	20514.37

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
Oil/Gas	Wolfcamp D	9919

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'	20,514'	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: 20514.37' MD/10,122' TVD (10,941' 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	1.45	1.32	1.78	1.84
Production	1.26	1.5	2.43	1.35

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	X	X	X
P external: Water			
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			
Frac at Shoe, Gas to Surf- Int Csg		X	
P external: Water			
P internal: Dry Gas, 15 ppg Frac Gradient			
Stimulation (Frac) Pressures- Prod Csg			X
P external: Water			
P internal: Max inj pressure w/ heaviest injected fluid			
Tubing leak- Prod Csg (packer at KOP)			X
P external: Water			
P internal: Leak just below surf, 8.7 ppg packer fluid			
Collapse Design			
Full Evacuation	X	X	X
P external: Water gradient in cement, mud above TOC			
P internal: none			
Cementing- Surf, Int, Prod Csg	X	X	X
P external: Wet cement			
P internal: water			
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'	20,514'	15.6	1.2	50	3728	5.30

ONSHORE ORDER NO. 1
Chevron
HayHurst SO 10 P3 #15H
Eddy County, NM

CONFIDENTIAL -- TIGHT HOLE
DRILLING PLAN
PAGE: 4

6. MUD PROGRAM

2.3-8.7 32-34 NC-NC

From	To	Type	Weight	F. Vis	Filtrate
0'	450'	Spud Mud	8	8	8
450'	9015'	OBM	9.0 - 9.5	50 - 70	5.0 - 10
9015'	20,514'	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