

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

5. Lease Serial No.
NNNM118108

6. 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 8 P2 14H

2. Name of Operator

CHEVRON USA INCORPORATED

Contact: DORIAN K. FUENTES

E-Mail: djvo@chevron.com

9. API Well No.

30-015-43931-00-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

98220 Purple SAGE WFM

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 17 T26S R27E NWNW 330FNL 960FWL

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 request to make changes to the original drill permit approved 10/11/2016.

Chevron request to make changes to the wellbore location and the drilling plan:

BHL FROM - 180 FNL & 996 FWL TO 280 FNL & 1170 FWL
PFTP FROM - 330 FSL & 998 FWL TO 330 FSL & 1170 FWL
PLTP FROM - 330 FNL & 996 FWL TO 330 FNL & 1170 FWL

TVD FROM 9904 to 10055
MD FROM 20551 to 20396

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

NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 13 2017

RECEIVED

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

Electronic Submission #362652 verified by the BLM Well Information System

For CHEVRON USA INCORPORATED, sent to the Carlsbad

Committed to AFMSS for processing by DEBORAH MCKINNEY on 01/24/2017 (17DLM0624SE)

Name (Printed/Typed) DORIAN K. FUENTES

Title REGULATORY SPECIALIST

Signature (Electronic Submission)

Date 01/04/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By MUSTAFA HAQUE

Title PETROLEUM ENGINEER

Date 02/08/2017

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 Carlsbad

APPROVED
FEB 8 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 ****

RUP

Additional data for EC transaction #362652 that would not fit on the form

32. Additional remarks, continued

Change the class of well from Oil to Gas Well.

Please refer to the attached C-102 and the drilling plan.

Should questions arise, 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

API Number 30-015-439.31		Well Name 98220 Purple		Well Number 14H	
Property Code 317043		Property Name HHSO 8 P2		Elevation 3247'	
OGRID No. 4323		Operator Name CHEVRON U.S.A. INC			

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	17	26 SOUTH	27 EAST, N.M.P.M.		330'	NORTH	960'	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
D	5	26 SOUTH	27 EAST, N.M.P.M.		280'	NORTH	1170'	WEST	EDDY

Dedicated Acres 6.46	Joint or Infill	Consolidation Code	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>LAST TAKE POINT</p> <p>X= 536,124 NAD 27 Y= 392,114 LAT 32.077983 LONG 104.216705</p> <p>X= 577,307 NAD83 Y= 392,171 LAT 32.078105 LONG 104.217199</p> <p>MID POINT</p> <p>X= 536,105 NAD 27 Y= 387,138 LAT 32.064305 LONG 104.216781</p> <p>X= 577,289 NAD83 Y= 387,195 LAT 32.064427 LONG 104.217275</p> <p>FIRST TAKE POINT</p> <p>X= 536,155 NAD 27 Y= 382,138 LAT 32.050560 LONG 104.216638</p> <p>X= 577,339 NAD83 Y= 382,195 LAT 32.050681 LONG 104.217132</p>	<p>PROPOSED BOTTOM HOLE LOCATION</p> <p>X= 536,124 NAD 27 Y= 392,164 LAT 32.078121 LONG 104.216704</p> <p>X= 577,307 NAD83 Y= 392,221 LAT 32.078242 LONG 104.217199</p> <p>CORNER COORDINATES TABLE (NAD 27)</p> <p>A - Y=392442.33 X=534954.83 B - Y=392446.14 X=537606.87 C - Y=387143.09 X=534935.36 D - Y=387132.57 X=537574.14 E - Y=381810.94 X=534988.20 F - Y=381805.09 X=537646.07 G - Y=376480.27 X=535066.16</p> <p>HHSO 8 P2 14H WELL</p> <p>X= 535,953 NAD 27 Y= 381,479 LAT 32.048747 LONG 104.217293</p> <p>X= 577,136 NAD83 Y= 381,536 LAT 32.048869 LONG 104.217787</p> <p>ELEVATION +3247' NAVD 88</p>	<p>17 OPERATOR CERTIFICATION</p> <p>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 or a decree entered by the division.</p> <p><i>[Signature]</i> Date 12-27-2016</p> <p><i>[Signature]</i> Printed Name E-mail Address <i>[Signature]</i></p> <p>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>01-05-2016 Date of Survey <i>[Signature]</i> Signature and Seal of Professional Surveyor 23006 Certificate Number</p>
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1. FORMATION TOPS

The estimated tops of important geologic markers are as follows:

FORMATION	SUB-SEA TVD	KBTVD	MD
Castille		505	
Lamar		2028	
Bell		2073	
Cherry		2922	
Brushy		4042	
Bone Spring/Avalon		5649	
First Bone Spring Sand		6564	
First Bone Spring Shale		6914	
Second Bone Spring Sand		7249	
Harkey Sand		8123	
Third Bone Spring Sand		8405	
Wolfcamp A		8745	
Wolfcamp D		9620	
Lateral TVD Wolfcamp D		10055	20395.7

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	505
Water	Cherry Canyon	2922
Oil/Gas	Brushy Canyon	4042
Oil/Gas	Bone Spring Limestone	6564
Oil/Gas	First Bone Spring Shale	6914
Oil/Gas	Second Bone Spring Sand	7249
Oil/Gas	Harkey Sand	8123
Oil/Gas	Wolfcamp A	8745
Oil/Gas	Wolfcamp D	9620

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 #	J-55	STC	New
Intermediate	0'	9,015'	12-1/4"	9-5/8"	43.5 #	L-80	TXP	New
Production	0'	20,396'	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: 20395.68' MD/10,000' TVD (10,000' VS @ 88.69 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 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'	20,396'	15.6	1.2	50	3305	5.30
Pilot Hole								
Tail	Class C	9,500'	10,000'	17.2	0.97	50-100	50-100	3.61

10207

350 sacks
per R. Milligan
7-26-2016

ONSHORE ORDER NO. 1
Chevron
HayHurst SO 8 P2 #14H
Eddy County, NM

CONFIDENTIAL -- TIGHT HOLE
DRILLING PLAN
PAGE: 4

6. MUD PROGRAM

9-3-8-7 32-34 NC-NC

From	To	Type	Weight	F. Vis	Filtrate
0'	450'	Spud Mud	0	0	0
450'	9015'	OBM	9.0 - 9.5	50 - 70	5.0 - 10
9015'	20,396'	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
Wireline Logs	Quad Combo w/ Di-Pole Sonic, FMI,	Prod hole	After Intermediate hole	TBD

8. ABNORMAL PRESSURES AND HYDROGEN SULFIDE

PLEASE REFERENCE MDP