

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
CD Artesia

5. Lease Serial No. **M 118 2108**
6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

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

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 8 P2 5H
2. Name of Operator CHEVRON USA INCORPORATED Contact: DORIAN K. FUENTES E-Mail: djvo@chevron.com		9. API Well No. 30-015-43935-00-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 17 T26S R27E SESW 255FNL 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 APD
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 drill permit approved 10/11/2016.

Chevron requests to change the wellbore location and the drilling plan:
BHL FROM - 180 FNL & 330 FWL TO 280 FNL & 750 FWL
PFTP FROM - 330 FSL & 330 FWL TO 330 FSL & 750 FWL
PLTP FROM - 330 FNL & 330 FWL TO 330 FNL & 750 FWL

TVD FROM 9563 to 9640
MD FROM 20126 to 19941

Change the class of well from Oil to Gas Well.

- All previous COA 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 #362651 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 (17DLM0623SE)

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 02/02/2017

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.

APPROVED
FEB 2 2017
BUREAU OF LAND MANAGEMENT
Office **Carlsbad 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 #362651 that would not fit on the form

32. Additional remarks, continued

Please refer to the attached C-102 and the drilling plan to reflect the new change request.
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 S. 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 30-015-43935		² Pool Code 4689C		³ Pool Name SAGE BRAN Wellcamp, EAST (GAS)	
⁴ Property Code 317643		⁵ Property Name HH SO 8 P2			⁶ Well Number 5H
⁷ OGRID No. 4323		⁸ Operator Name CHEVRON U.S.A. INC.			⁹ Elevation 3245'

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
D	17	26 SOUTH	27 EAST, N.M.P.M.		255'	NORTH	960'	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
D	5	26 SOUTH	27 EAST, N.M.P.M.		280'	NORTH	750'	WEST	EDDY

¹² Dedicated Acres 6.46	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

LAST TAKE POINT	
X=	535,704 NAD 27
Y=	392,113
LAT.	32.077983
LONG.	104.218061
X=	576,887 NAD83
Y=	392,170
LAT.	32.078104
LONG.	104.218555
MID POINT	
X=	535,885 NAD 27
Y=	387,140
LAT.	32.064311
LONG.	104.218137
X=	576,859 NAD83
Y=	387,197
LAT.	32.064433
LONG.	104.218631
FIRST TAKE POINT	
X=	535,735 NAD 27
Y=	382,139
LAT.	32.050563
LONG.	104.217994
X=	576,919 NAD83
Y=	382,196
LAT.	32.050685
LONG.	104.218488

PROPOSED BOTTOM HOLE LOCATION	
X=	535,704 NAD 27
Y=	392,163
LAT.	32.078120
LONG.	104.218060
X=	576,887 NAD83
Y=	392,220
LAT.	32.078242
LONG.	104.218555

CORNER COORDINATES TABLE (NAD 27)	
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=537846.07	
G - Y=376480.27, X=535066.16	

HH SO 8 P2 5H WELL	
X=	535,952 NAD 27
Y=	381,554
LAT.	32.048953
LONG.	104.217295
X=	577,136 NAD83
Y=	381,611
LAT.	32.049075
LONG.	104.217789
ELEVATION	-3245' NAVD 88

¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete. In 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] 01-14-2017
Date

[Signature]
Project Name

[Signature]
E-mail address: *dw@chevron.com*

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.

01-05-2017
Date of Survey

[Signature]
Signature and Seal of Professional Surveyor

23006
Certificate Number

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	Harkey Sand	8123	
Third Bone Spring Sand		8405	
Wolfcamp A		8745	
Wolfcamp C		9510	
Lateral TVD Wolfcamp C		9640	19940.6

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 C	9510

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'	19,941'	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: 19940.6' MD/9,640' TVD (10,000' VS @ 89.25 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			

5. CEMENTING PROGRAM

Slurry	Type	Cement Top	Cement Bottom	Weight (ppg)	Yield (sx/cu ft)	%Excess Open Hole	Sacks	Water gal/sk
Surface								
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'	19,941'	15.6	1.2	50	3465	5.30

ONSHORE ORDER NO. 1
Chevron
HayHurst SO 8 P 2 #5H
Eddy County, NM

CONFIDENTIAL -- TIGHT HOLE
DRILLING PLAN
PAGE: 4

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'	19,941'	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