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

5.	Lease Serial No.
n	NMNM121473

SUNDRY NOTICES AND REPORTS ON Do not use this form for proposals to drill or to	I WELLS CI	f'ield	NMNM1214
Do not use this form for proposals to drill or t	to le-) (ter a	A	6. Kaian, Allo

Do not use thi abandoned wel	s form for proposals to o l. Use form 3160-3 (APD	drill or to le-) for such p	tera roposas.Ar	tesia	6. Kaian, Alle	ottee or	Tribe Name
	RIPLICATE - Other instr				7. If Unit or CA	/Agreem	nent, Name and/or No.
Type of Well	1. Type of Well Soil Well Gas Well Other						
Name of Operator Contact: DORIAN K FUENTES CHEVRON USA INCORPORATED E-Mail: DJVO@CHEVRON.COM						937-00	-X1
3a. Address 15 SMITH ROAD MIDLAND, TX 79705 3b. Phone No. (include area code) Ph: 432-687-7631					10. Field and Po WILDCAT	ool or Ex	ploratory Area
4. Location of Well (Footage, Sec., T.	, R., M., or Survey Description)				11. County or P	arish, St	ate
Sec 3 T26S R27E SESW 603	FSL 2066FWL				EDDY CO	UNTY,	NM
12. CHECK THE AF	PPROPRIATE BOX(ES)	TO INDICA	ΓE NATURE O	F NOTICE, R	REPORT, OR	ОТНІ	ER DATA
TYPE OF SUBMISSION			TYPE OF	ACTION			
■ Notice of Intent	☐ Acidize	☐ Deep	oen	☐ Productio	n (Start/Resun	ne)	☐ Water Shut-Off
	☐ Alter Casing		raulic Fracturing	□ Reclamat			☐ Well Integrity
☐ Subsequent Report	Casing Repair		Construction	□ Recomple			☑ Other Change to Original A
☐ Final Abandonment Notice	☐ Change Plans ☐ Convert to Injection	☐ Plug ☐ Plug	and Abandon	☐ Temporar	rily Abandon		PD
13. Describe Proposed or Completed Ope					·	approvi	mate duration thereof
If the proposal is to deepen directions Attach the Bond under which the wor following completion of the involved testing has been completed. Final At determined that the site is ready for fi	k will be performed or provide to operations. If the operation restorment Notices must be file inal inspection.	he Bond No. on ults in a multiple d only after all i	file with BLM/BIA e completion or reco requirements, includ	A. Required subsompletion in a ne ling reclamation,	equent reports move interval, a For Accepte	met he fi	iled within 30 days -4 must be filed once d the operator has Or Record
Chevron U.S.A. INC., respect 10/11/2016.	uny requests to make cha	nges to the c	niginai permit ap	pproved			isernanda Isernanda
Chevron requests to change: BHL - from 180' FSL & 2315 I PFTP - from 330' FNL & 2310' PLTP - from 330' FSL & 2315'	' FWL to 330' FNL & 2430'	'FEL			AR	75 5 1.\	6 2017
Please refer to the attached C	-102 to reflect the new cha	ange request					
Chevron requests to change to TVD - from 9912 to 9857		Addific	inal COA	ton as			
	Electronic Submission #3 For CHEVRON U Ited to AFMSS for processi	SA INCORPO	RATED, sent to t RAH MCKINNEY o	the Carlsbad on 12/13/2016	(17DLM0403S	E)	
Name (Printed/Typed) DORIAN F	(FUENTES		Title REGUL	ATORY SPE	CIALIST		
Signature (Electronic S	Submission)		Date 11/29[20	APPK(JACH		
	THIS SPACE FO	R FEDERA	L OR STATE	OFFICE US	E		
Approved By MUSTAFA HAQUE	d. Approval of this notice does t		TitlePETROLE	UM ENGINEI REAU OF LAND		NT.	Date 02/02/2017
conditions of approval, if any, are attached electify that the applicant holds legal or equivalent would entitle the applicant to condu	itable title to those rights in the			CARLSBAD FL			

Additional data for EC transaction #359140 that would not fit on the form

32. Additional remarks, continued

MD - from 20714 to 20258

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

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

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	
Wolfcamp C		9789	
Lateral TVD Wolfcamp C		9857	20258.55

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 C	9789

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

3. BOP EQUIPMENT

PLEASE REFERENCE MDP

CONFIDENTIAL -- TIGHT HOLE **DRILLING PLAN** PAGE:

4. CASING PROGRAM

Purpose	From	То	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,	20,259'	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' 9015

Intermediate Casing:

Production Casing:	20258.55' MD/9,857.24' TVD (10,946 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	Į		
P internal: Test psi + next section heaviest mud in csg			
Displace to Gas- Surf Csg	X		
P external: Water		1	
P internal: Dry Gas from Next Csg Point			
Frac at Shoe, Gas to Surf- Int Csg		X	
P external: Water	,		1
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)	1		X
P external: Water		l	
P internal: Leak just below surf, 8.7 ppg packer fluid			
Collapse Design			
Full Evacuation	X	Х	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		1	
P internal: water			
Tension Design		T T	

| 100k lb overpull | X | X | X |
ONSHORE ORDER NO. 1 | CONFIDENTIAL -- TIGHT HOLE

Chevron HayHurst SO 10 P3 #8H Eddy County, NM DRILLING PLAN
PAGE: 3

5. CEMENTING PROGRAM

Slurry	Туре	Cement Top	Cement Bottom	Weight	Yield	%Excess	Sacks	Water
Surface				(ppg)	(sx/cu ft)	Open Hole	¥,,	gal/sk
<u>Tail</u>	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		2,1	00'		A gold will		of Alexander	
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'	20,259'	15.6	1.2	50	3633	5.30

ONSHORE ORDER NO. 1 Chevron HayHurst SO 10 P3 #8H Eddy County, NM CONFIDENTIAL -- TIGHT HOLE DRILLING PLAN PAGE: 4

6. MUD PROGRAM

From	То	Туре	Weight	F. Vis	Filtrate
0'	450'	Spud Mud	8.3 - 8.7	32 - 34	NC - NC
450'	9015'	ОВМ	9.0 - 9.5	50 -70	5.0 - 10
9015'	20,259'	OBM	10.0 - 13.5	50 -70	5.0 - 10

7 TESTING, LOGGING, AND CORING

TYPE	Logs	Interval	Timina	Vendor
Mudlogs	2 man mudlog	Int Csa to TD	Drillout of Int Csa	TBD
LWD	MWD Gamma	Int. and Prod. Hole	While Drilling	TBD

8. ABNORMAL PRESSURES AND HYDROGEN SULFIDE

PLEASE REFERENCE MDP

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CONFIDENTIAL -- TIGHT HOLE DRILLING PLAN PAGE:

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Burst Design			
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P external: Water			
P internal: Test psi + next section heaviest mud in csg			
Displace to Gas- Surf Csg	X		
P external: Water	ļ		
P internal: Dry Gas from Next Csg Point			
Frac at Shoe, Gas to Surf- Int Csg	T	X	
P external: Water			
P internal: Dry Gas, 15 ppg Frac Gradient	Į.	l	
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		}	ł
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			1
P internal: none			
Cementing- Surf, Int, Prod Csg	X	X	X
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Tension Design			

100k lb overpull ONSHORE ORDER NO. 1 Chevron HayHurst SO 10 P3 #8H Eddy County, NM CONFIDENTIAL -- TIGHT HOLE DRILLING PLAN

PAGE:

5. **CEMENTING PROGRAM**

0	T	Cement	Cement	324-1-4-4	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0/5		
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Intermediate	50:50 Bas: Class 6		<u> </u>		T	·		
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ONSHORE ORDER NO. 1 Chevron HayHurst SO 10 P3 #8H Eddy County, NM

CONFIDENTIAL -- TIGHT HOLE DRILLING PLAN PAGE: 4

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