Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB NO. 1004-0137

BUREAU OF LAND MANAGEMENT					Expires: Jan	uary 31, 2018
	NOTICES AND REPO		LLS		5. Lease Serial No. NMNM118723	
	is form for proposals to II. Use form 3160-3 (AF			s oc	6. If Indian, Allottee or	Tribe Name
	TRIPLICATE - Other ins		nage 2	8 2018	7. If Unit or CA/Agreer	nent, Name and/or No.
1. Type of Well					8. Well Name and No. MAELSTROM SWI	D 1
Oil Well Gas Well Oth 2. Name of Operator		KAYLA MCC	ONNELIRE C	EIVE	9. API Well No.	
CHEVRON USA INCORPORA	ATED E-Mail: kaylamcc	onnell@chevron	Som has a	i ISida y	30-025-45127-00)-X1
3a. Address 6301 DEAUVILLE BLVD MIDLAND, TX 79706 3b. Phote No. (include great ode) Ph: 432-687-7(75)					10. Field and Pool or E SWD-DELAWAR	
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description	n)			11. County or Parish, S	tate
Sec 15 T26S R32E NWSE 20 32.041229 N Lat, 103.659966					LEA COUNTY, N	IM
12. CHECK THE AI	PPROPRIATE BOX(ES) TO INDICA	ΓE NATURE O	F NOTICE,	REPORT, OR OTH	ER DATA
TYPE OF SUBMISSION			TYPE OF	ACTION		
	☐ Acidize	☐ Dee	oen	☐ Product:	ion (Start/Resume)	☐ Water Shut-Off
Notice of Intent ■ Notice of Intent	☐ Alter Casing	☐ Hyd	raulic Fracturing	☐ Reclam	ation	☐ Well Integrity
☐ Subsequent Report	□ Casing Repair	□ New	Construction	☐ Recomp	lete	⊠ Other
☐ Final Abandonment Notice	☐ Change Plans	☐ Plug	and Abandon	andon ☐ Temporarily Abandon Change to Orig ☐ Water Disposal		Change to Original A PD
	☐ Convert to Injection	☐ Plug	Back			
Attach the Bond under which the worfollowing completion of the involved testing has been completed. Final Aldetermined that the site is ready for f Chevron respectfully request to Original: 18 1/2" hole Change to: 18 1/8" hole Original: 5 7/8" hole Original: 5 7/8" hole Change to: 6 1/8" hole Original: 13 3/8" Tenaris Wed Change to: 13 3/8" Tenaris Wed Change to: 13 3/8" Tenaris Wed Change to: 14 3/8" Tenaris Wed Chevron also request to use the product of the complete to the complete t	ge 513 Flush connection edge 523 Semi-Flush conhe following BOP ratings to the following BOP ratings true and correct. Electronic Submission a For CHEVRO!	esults in a multiplided only after all states of the original AF innection (See for the hole see for the hole see that the original AF incorp	e completion or recordequirements, included the provided attached data sections listed belonged by the BLM Webarted, sent to	mpletion in a ring reclamation heet) which is a market of the market o	new interval, a Form 3160 a, have been completed an	-4 must be filed once
	nmitted to AFMSS for prod CCONNELL	cessing by PRI		n 10/17/2018 TTING SPE(•	
A TOMAN (A COMMON A SPECIAL PORTION OF THE PARTY OF THE P	CONTRACT		I LI NIVII	, , , , , , O O F E	5.0 NETO 1	<u> </u>
Signature (Electronic S	Submission)		Date 09/04/2	018		
	THIS SPACE F	OR FEDERA	L OR STATE	OFFICE U	SE	
Approved By ZQTA STEVENS Conditions of approval, if any, are attache certify that the applicant holds legal or equ	uitable title to those rights in th		TitlePETROLE	UM ENGINI	ER	Date 11/13/2018
which would entitle the applicant to condu	act operations thereon.		Office Hobbs			

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.



Additional data for EC transaction #433686 that would not fit on the form

32. Additional remarks, continued

- 2M 21-1/4 BOP will be installed and tested to drill the 18 1/8" hole section (800' to 4,540').
 5M 16-3/4 BOP will be installed and tested to drill the 14 3/4" hole section (4,540' to 12,000').
- 10M 13-5/8 BOP will be installed and tested to drill the 12 1/4", 8 1/2", and 6 1/8" hole section (12,000' to 19,100').

See attached 9 point drilling plan for highlighted changes & amended WBD.

For the latest performance data, always visit our website: www.tenaris.com

Wedge 523®

Printed on: 09/04/2018

Min. Wall Thickness 87.5%

(*)GradeTN 110SS

Outside Diameter 13.375 in.

Connection OD REGULAR

Option

Coupling

Pipe Body

Wall Thickness 0.514 in.

Drift

Alternative Drift

Casing

Body: Brown

1st Band: Pink

Grade

TN 110SS*

Type

1st Band: Pink 2nd Band: Yellow

2nd Band: Yellow

3rd Band: Brown

3rd Band: -

4th Band: -

					3rd Band: -
ମାନ୍ତ୍ର ଅପ୍ତର୍ଥି । Geometry	DATVAS -	1, 2, 18	· · · · · · · · · · · · · · · · · · ·		
Nominal OD	13.375 in.	Nominal Weight	72.00 lbs/ft	Drift	12.25 in.
Nominal ID	12.347 in.	Wall Thickness	0.514 in.	Plain End Weight	70.67 lbs/ft
OD Tolerance	API				
Performance				· · · · · · · · · · · · · · · · · · ·	
Body Yield Strength	2284 x1000 lbs	Internal Yield	7400 psi	SMYS	110000 psi
Collapse	2880 psi				
CONNECTION Geometry	N DATA				
Connection OD	13.602 in.	Connection ID	12.294 in.	Make-up Loss	4.940 in.
Threads per in	3.06	Connection OD Option	REGULAR		
Performance					
Tension Efficiency	71.5 %	Joint Yield Strength	1633.060 ×1000 lbs	Internal Pressure Capacity	7400.000 psi
Compression Efficiency	82.3 %	Compression Strength	1879.732 x1000 lbs	Max. Allowable Bending	27.2 °/100 ft
External Pressure Capacity	2880.000 psi				
Make-Up Tord	ques				
Minimum	33000 ft-lbs	Optimum	40000 ft-lbs	Maximum	58000 ft-lbs
Operation Lin	nit Torques				
Operating Torque	161000 ft-lbs	Yield Torque	241000 ft-lbs		-

Notes

Wedge 523@ - 13,375 in, - 68 lbs/ft

Connections with Dopeless€ Technology are fully compatible with the same connection in its Standard version

For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

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1. FORMATION TOPS

The estimated tops of important geologic markers are as follows:

FORMATION	SUB-SEA TVD	KBTVD	MD
Rustler		560	580
Castile		2,710	2,710
Lamar		4,510	4,510
Bell Canyon		4,560	4,560
Cherry Canyon		5.570	5,570
Brushy Canyon		7,130	7,130
Bone Spring Lime		8,630	8,630
Upper Avalon		8,700	\$,700
Top Bone Spring 1		9,650	9,650
Top Bone Spring 2		10,230	10,230
Top Bone Spring 3		10,320	10.320
Wolfcamp A		11,900	11,900
Wolfcamp B		12,600	12,600
Wolfcamp C		13,100	13,100
Wolfcamp D		14.100	14,100
Strawn		14,600	14.600
Atoka		15,000	15,000
Morrow		15,900	15,900
Barnett Shale		15,700	16,700
Mississippian Lime		17,400	17.400
Woodford		17.790	17,790
Silurian		17,950	17,950
Fusselman		18,815	18,815
Montoya		19,100	19,100

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 Expec	ted Base of Fresh Water	400
w	Castile	2,710
w	Lamar	4.510
0/W	Bell Canyon	4,560
0/W	Cherry Canyon	5,570
0/W	Brushy Canyon	7,130
0/G/W	Bone Spring Lime	8,630
0/G/W	Upper Avalon	8,700
O/G/W	Top Bone Spring 1	9.650
0/G/W	Top Bone Spring 2	10,230
0/G/W	Top Bone Spring 3	10,320
O/G/W	Wolfcamp A	11,900
0/G/W	Wolfcamp B	12,600
0/G/W	Wolfcamp C	13,100
0/G/W	Wolfcamp D	14,100
0/G/W	Sirawn	14,600
G/W	Atoka	15,000
G/W	Morrow	15,900
W	Barnett Shale	16,700
W	Mississippian Lime	17,400
w	Woodford	17,790
w	Top Silurian	17.950
W	Top Fusselman	18,815
W	Montoya	19.100

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

3. BOP EQUIPMENT

A 2M 21-1/4 BOP will be installed and tested to drill the (SA/B) nole section (800' to 4,540'). Please see schematic. The BOP will be tested as a 2M system per BLM Onshore Oil and Gas Order 2 prior to drilling out the casing shoe. Max anticipated pressure in hole section 2250 psi.

A 5M 16-3/4 BOP will be installed and tested to drill the 14-3/4" hole section (4,540' to 12,000'). Please see schematic. The BOP will be tested as a 5M system per BLM Onshore Oil and Gas Order 2 prior to drilling out the casing shoe. Max anticipated pressure in hole section 5920 psi.

A 10M 13-5/8 BOP will be installed and tested to drill the 12-1/4", 8-1/2", and system per BLM Onshore Oil and Gas Order 2 prior to drilling out the casing shoe. Max anticipated pressure in hole section 9200 psi.

Chevron request a variance to use a felxible line with flanged ends between the BOP and the choke manifold. (Choke Line)

BOPE will be nippled up and tested after cementing surface casing. Subsequent tests will be performed as needed, not to exceed 30 days. Chevron requests a variance to use a FMC Technologies Multibowl wellhead. Please see attached wellhead schematic.

4. CASING PROGRAM

a. The proposed casing program will be as follows:

Purpose	From	То	Hole Size	Csg Size	Weight	Grade	Thread	Condition
Surface	0,	800'	24"	20"	94#	J-55	BTC	New
Intermediate 1	0'	4,540'	1951/61	16"	97#	L-80	BTC	New
Intermediate 2	0,	12,000'	14-3/4"	13-3/8"	72#	TN-110SS	513	New
Production Liner 1	11,700'	17,410	12-1/4"	9-5/8"	53.5#	T-95IC	Blue	New
Production Tieback	0'	11,700'	N/A	9-5/8"	53,5#	TN-110HS	Blue	New
Production Liner 2	17,110'	17,950'	8-1/2"	7"	26#	L80	Blue	New
Production Open Hole	17,950'	19,100	0.1/87	N/A	N/A	N/A	N/A	N/A

- b. Casing design subject to revision based on geologic conditions encountered.
 c. ***A "Worst Case" casing design for wells in a particular area is used below to calculate the Casing Safety Factors. If for any reason the casing design for a particular well requires setting casing deeper than the following "worst case" design, then the Casing Safety Factors will be recalculated & sent to the BLM prior to drilling.

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

Casing String	Min SF Burst	Min SF Collapse	Min SF Tension	Min SF Tri-Axial
Surface	1.4	1.13	4.68	1,56
Intermediate 1	1.28	1.34	3.37	1,51
Intermediate 2	1.21	1.05	1.63	1,35
Production Liner 1	2.29	1.14	2.89	1.57
Production Tieback	1,31	1.41	2.18	1,41
Production Liner 2	1.31	2.63	2.39	1,44

The following worst case load cases were considered for calculation of the above Min. Safety Factors:

	Surf	Int1	Int2	Prod	Prod	Prod
Burst Design				Liner1	Tieback	Liner2
Pressure Test- Surface, Int, Prod Csg	X	X	X	Х	Х	Х
P external: Mud weight above TOC, PP below	1				ľ	1
P internal: Test psi + next section heaviest mud in csg						
Displace to Gas- Surf Csg	Х				1	
P external: Mud weight above TOC, PP below			j			}
P internal: Dry Gas from Next Csg Point			i		ļ	
Gas over mud (60/40) - Int Csg/Liner		Х			,	
P external: Mud weight above TOC, PP below	+					1
P internal: 60% gas over 40% mud from Pilot hole TD PP		i				
Gas over mud (50/50) - Int Csg/Liner			X	X	Х	X
P external: Mud weight above TOC, PP below	1	ŀ	i	i i	i	1
P internal: 50% gas over 50% mud from Pilot hole TD PP						ŀ
Stimulation (Acid Job) Pressures- Prod Csg				Х	Х	X
P external: Mud weight above TOC, PP below			i	1		1
P internal: Max pemitted inj pressure w/ heaviest fluid						_i
Tubing Leak- Prod Csg	1			X	X	X
P external: Mud weight above TOC, PP below		ľ				
P internal: Leak just below surf, 9.1 ppg packer fluid						
Collapse Design						
Partial Evacuation		Х	X	X	Х	Х
P external: Mud weight gradient			i			i
P internal: Dry Gas to 2000', Mud Weight Gradient Below						
Full Evacuation	Х					
P external: Mud weight gradient					ļ	1
P internal: none						
Fluid Drop Above Packer				X	х	x
P external: Mud weight gradient	i	ı			1	1
P internal: 9.1 ppg packer fluid drops till blanced with TD PP						
Cementing- Surf, Int, Prod Csg	Х	х	X	X	X	Х
P external: Wet cement				1		
P internal: displacement fluid - water						
Tension Design						
100k lb overpull	X	Х	X	X	Х	X

1

5. CEMENTING PROGRAM

Slurry	Туре	Тор	Bottom	Weight	Yield	%Excess	Sacks	Water	Volume
Surface				(ppg)	(cu ft/sk)	Open Hole		gal/sk	bbls
Tail	Class C	0,	800'	14.8	1.33	100	962	6.37	227
Intermediate Csg 1									
Lead	50:50 Poz: Class C + Extender, Antifoam, Retarder, Salt	0'	3,540'	11.9	2.37	50	1018	13.45	430
Tail	Class C + Retarder	3,540'	4,540'	14,8	1,33	50	603	6,37	143
Intermediate Csg 2									
Lead	50:50 Poz: Class C + Extender, Antifoam	4,240'	11,000'	11.9	2.36	10	1567	13.40	279
Tail	Class H + Retarder + Extender + Dispersant	11,000'	12,000'	15.6	1,23	10	299	5,41	53
Production Liner1									
Lead	Gas Control, Viscositier, Retarder	11,700'	16,410'	15.6	1,20	10	1617	5.40	288
Tail	Class H + Extender, Antifoam, Dispersant, Gas Control, Viscosifier, Retarder	16,410'	17,410'	15.6	1,20-	10	376	5.40	67
Production Tieback					_				
Tail	Class H + Antifoam, Dispersant, Fluid Loss, Retarder, Extender	0'	11,700'	15.6	1,20	0	3832	5.40	683
Production Liner2					•			•	•
Tail	TXI + Antifoarn, Dispersant, Viscosifier, Fluid Loss, Retarder	17,110'	17,950'	12.5	1.56	50	150	8.38	27

- 1. Final cement volumes will be determined by caliper.
- 2. Surface casing shall have at least one centralizer installed on each of the bottom three joints starting with the shoe joint.

6. MUD PROGRAM

From	То	Туре	Weight	Viscosity	Filtrate
0'	800'	Spud Mud	8.3 – 9.0	28-36	N/C
800'	4,540'	Brine Water	10 – 10.4	28-32	N/C
4,540'	12,000'	OBM	8.7-10.0	40-60	20-30
12,000'	17,410	OBM	12.2-15.6	55-75	10-15
17,410'	17,950	WBM	8.8-9.6	35-45	<10
17,950'	19,100	Cut Brine	8.4-9.0	28-32	N/C

A closed system will by utilized consisting of above ground steel tanks. All wastes accumulated during drilling operations will be contained in a portable trash cage and removed from location and deposited in an approved sanitary landfill. Sanitary wastes will be contained in a chemical porta-toilet and then hauled to an approved sanitary landfill.

All fluids and cuttings will be disposed of in accordance with New Mexico Oil Conservation Division rules and regulations.

A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.

Visual mud monitoring equipment shall be in place to detect volume changes indicating loss or gain of circulating fluid volume. When abnormal pressures are anticipated — a pit volume totalizer (PVT), stroke counter, and flow sensor will be used to detect volume changes indicating loss or gain of circulating fluid volume.

A weighting agent and lost circulating material (LCM) will be onsite to mitigate pressure or lost circulation as hole conditions dictate.

7. TESTING, LOGGING, AND CORING

The anticipated type and amount of testing, logging, and coring are as follows:

- a. Drill stem tests are not planned.
- b. The logging program will be as follows:

TYPE	Logs	Interval
Mudlogs	2 Man Mud Log	4,540' to TD
LWD	MWD Gamma	4,540' to TD
041000	Quad Combo	17,950' - 19,100'
OH Logs		Injection Zone
CILLATA	CBL	17,110' - 17,870'
CH Logs		Production Liner 2

c. A Directional Survey will be run.

8. ABNORMAL PRESSURES AND HYDROGEN SULFIDE

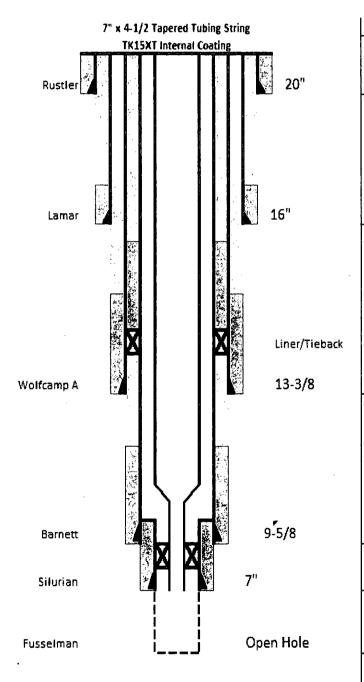
- a. No abnormal pressure or temperatures are expected. Estimated BHP is: 9200 psi
- b. Hydrogen sulfide gas is not anticipated. An H2S Contingency plan is attached with this APD in the event that H2S is encountered

CHEVRON USA INC MAELSTROM SWD #1 API: 30-025-4512 2050' FSL & 1783' FEL

Sec. 15 T26S R32E Lea County, NM



PROPOSED WELLBORE DIAGRAM



Hole Size	Casing	Mud Program				
24" +/-800'	20" 94# J55 BTC	Spud Mud 8.3-9.0 ppg				
18-1/2" 18-1/8" +/-4,540'	16" 97# L80 BTC	Brine Water 10-10.4 ppg				
14-3/4" +/- 12,000'	13-3/8" 72# TN-110SS 523 Alt Drift 12.25"	OBM 8.7-10.0 ppg				
12-1/4" +/- 17,410	9-5/8" 53.5# TN-951C Blue Liner Alt Drift 8.5" ~11,700' 9-5/8" 53.5# TN-110HS Blue Tieback Alt Drift 8.5"	OBM 12.2-15.6 ppg				
8-1/2" +/- 17,950'	7" 26# L80 Blue Liner	WBM 8.9-9.6 ppg				
5-7/8" 6-1/8" +/- 19,100'	N/A	Cut Brine 8.4-9.0 ppg				
Injection interval will be treated with 15-20% HCL @ 50-100gai/ft						