Form 123B/123S - Electronic Version

Revised Application for Sidetrack

Lease G25251 **Area/Block** WR 540 **Well Name** JU105 **ST** 01 **BP** 00 **Well Type** D

Permit ID -18180 **Operator** 00276 Exxon Mobil Corporation

General Well Information

API Well Number	608124011101			**Kickoff Point**	14067
Date of Request	05/12/2017	**Approval Date**	05/16/2017	**Req Spud Date**	12/29/2016
Water Depth(ft.)	7147	**Drive Size(in.)**	36	**Mineral Code**	H
RKB Elevation(ft.)	84	**Drive Depth(ft.)**	279	**Subsea BOP**	Y

Proposed Well Location

SURFACE

LEASE(OCS)	G20351	**Area/Block**	WR 584			**State Lease(if applicable)**	
Entered NAD 27 Data		**Calculated NAD 27 Departures**				**Calculated NAD 27 X-Y Coordinates**	
Lon:	-91.366842	**W**	4864			2174943.7520	
Lat:	26.38388854	**N**	6232			9576968.4620	
Plan Information							
Control ID	N 9699	**Lease**	G20351	**Area**	WR	**Block** 584	**Well Name** DC1-4

BOTTOM

LEASE(OCS)	G25251					**Area/Block**	WR 540
Entered NAD 27 Data		**Calculated NAD 27 Departures**				**Calculated NAD 27 X-Y Coordinates**	
Lon:	-91.35791694	**W**	7689			2177768.6070	
Lat:	26.40478278	**S**	1399			9584599.1150	
Plan Information							
Control ID	N 9699	**Lease**	G25251	**Area**	WR	**Block** 540	**Well Name** DC1-4

Rig Information

RIG SPECIFICATIONS		**ANCHORS**	N
Rig Name	MAERSK VIKING		
Type	DRILLSHIP	**ID Number**	50410
Function	D	**Constructed Year**	2014
Shipyard	SINGAPORE	**Refurbished Year**	
RATED DEPTHS			
Water Depth	12000	**Drill Depth**	40000
CERTIFICATES			
ABS	02/23/2019	**Coast Guard**	06/02/2017
SAFE WELDING AREA			
Approval Date	06/18/2014	**District**	GOMR Houma District
Remarks			

Geologic Information

H2S Designation	Absent	**H2S TVD**	

Geologic Markers

Name	Top MD
H-50	10518
Top of Salt	12051
Base of Salt	24052
Middle Miocene	25762
Langhian	26530
Burdigalian	27356
H-40	10380
Oligocene	28388
Upper Wilcox	29813
Middle Wilcox	30041

Cretaceous	31366

Question Information

Number	Question	Response	Response Text
1	Will you maintain quantities of mud and mud material (including weight materials and additives) sufficient to raise the entire system mud weight 1/2 ppg or more?	Y	
2	If hydrocarbon-based or synthetic-based drilling fluids were used, is the drilling rig outfitted for zero discharge, and will zero discharge procedures be followed?	Y	
3	If drilling the shallow casings strings riserless, will you maintain kill weight mud on the rig and monitor the wellbore with an ROV to ensure that it is not flowing?	Y	
4	If requesting a waiver of the conductor casing, have you submitted a log to government agency G&G that is with in 500 feet of the proposed bottom hole location for the proposed surface casing point?	N/A	
5	Will the proposed operation be covered by an EPA Discharge Permit? (please provide permit number in comments for this question)	Y	GMG290070
6	Will all wells in the well bay and related production equipment be shut-in when moving on to or off of an offshore platform, or from well to well on the platform? If not, please explain.	N/A	
7	Is the calculated daily volume possible from an uncontrolled blowout of this well greater than the daily volume included in the worst case discharge scenario in the approved oil spill response plan?	N	
8	Has the drilling rig been approved for the use of digital BOP testing? If yes, which version?	Y	SureTec 3.1

Permit Attachments

There are no attachments available.

Well Design Information

Interval Number 1 **Type** C **Name** C

Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating (psi)	Collapse Rating (psi)	Depth(ft)		Pore Pressure
						MD	TVD	
1	28	218	X60	2810	950	8372	8372	8.6

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size(in)	32	Type	GSW	Annular Test(psi)	0
Mud Weight(ppg)	0	Size(in)	18.75	BOP/Diverter Test(psi)	0
Mud Type Code	GSW	Wellhead Rating(psi)	15000	Mud Test Weight(ppg)	0
Fracture Gradient(ppg)	0	Annular Rating(psi)	10000	Casing/Liner Test(psi)	0
Liner Top Depth(ft)	0	BOP Rating(psi)	15000	Formation Test(ppg)	0
Cement Volume(cu ft)	2019				

Interval Number 2 **Type** C **Name** S

Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating (psi)	Collapse Rating (psi)	Depth(ft)		Pore Pressure
						MD	TVD	
1	22	224.5	X-80	6360	3870	10420	10420	8.6

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size(in)	28	Type	SBM	Annular Test(psi)	4000
Mud Weight(ppg)	8.6	Size(in)	18.75	BOP/Diverter Test(psi)	5000
Mud Type Code	SBM	Wellhead Rating(psi)	15000	Mud Test Weight(ppg)	8.6
Fracture Gradient(ppg)	11	Annular Rating(psi)	10000	Casing/Liner Test(psi)	3000
Liner Top Depth(ft)	0	BOP Rating(psi)	15000	Formation Test(ppg)	11
Cement Volume(cu ft)	4971				

Interval Number 3 **Type** L **Name** S

Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating (psi)	Collapse Rating (psi)	Depth(ft)		Pore Pressure
						MD	TVD	
1	17.875	93.5	Q-125	6469	1090	14067	14067	9.9

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size(in)	21	Type	SBM	Annular Test(psi)	4000
Mud Weight(ppg)	12	Size(in)	18.75	BOP/Diverter Test(psi)	5500
Mud Type Code	SBM	Wellhead Rating(psi)	15000	Mud Test Weight(ppg)	12
Fracture Gradient(ppg)	12.8	Annular Rating(psi)	10000	Casing/Liner Test(psi)	2500
Liner Top Depth(ft)	9913	BOP Rating(psi)	15000	Formation Test(ppg)	12.8

Cement Volume(cu ft)	1797

Interval Number 4 **Type** L **Name** I

Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating (psi)	Collapse Rating (psi)	Depth(ft)		Pore Pressure
						MD	TVD	
1	16	96	P110 TSH	7090	2340	17012	16952	10.7

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size(in)	19	**Type**	SBM	**Annular Test(psi)**	4000
Mud Weight(ppg)	12	**Size(in)**	18.75	**BOP/Diverter Test(psi)**	6500
Mud Type Code	SBM	**Wellhead Rating(psi)**	15000	**Mud Test Weight(ppg)**	12
Fracture Gradient(ppg)	14.7	**Annular Rating(psi)**	10000	**Casing/Liner Test(psi)**	2500
Liner Top Depth(ft)	9409	**BOP Rating(psi)**	15000	**Formation Test(ppg)**	14.1
Cement Volume(cu ft)	1033				

Interval Number 5 **Type** C **Name** I

Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating (psi)	Collapse Rating (psi)	Depth(ft)		Pore Pressure
						MD	TVD	
1	14	113	Q--125	13214	8650	25745	24000	12.8
2	14	113	Q-125IC	12860	9500	26915	24931	13.4
3	14	113	Q--125	13214	8650	27637	25507	13.8

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size(in)	16.5	**Type**	SBM	**Annular Test(psi)**	4000
Mud Weight(ppg)	13.7	**Size(in)**	18.75	**BOP/Diverter Test(psi)**	8300
Mud Type Code	SBM	**Wellhead Rating(psi)**	15000	**Mud Test Weight(ppg)**	13.7
Fracture Gradient(ppg)	15.1	**Annular Rating(psi)**	10000	**Casing/Liner Test(psi)**	6400
Liner Top Depth(ft)		**BOP Rating(psi)**	15000	**Formation Test(ppg)**	15.1
Cement Volume(cu ft)	574				

Interval Number 6 **Type** C **Name** P

Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating (psi)	Collapse Rating (psi)	Depth(ft)		Pore Pressure
						MD	TVD	
1	10.75	85.3	SM-125TT	17140	16340	16000	15981	10.3
2	10	73.2	VM125HC	16930	16090	28820	26483	14.3
3	10	73.2	UHP 15CR125	16470	16160	31685	29165	14.7

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size(in)	12.25	**Type**	SBM	**Annular Test(psi)**	4000
Mud Weight(ppg)	14.5	**Size(in)**	18.75	**BOP/Diverter Test(psi)**	8300
Mud Type Code	SBM	**Wellhead Rating(psi)**	15000	**Mud Test Weight(ppg)**	14.5
Fracture Gradient(ppg)	15.9	**Annular Rating(psi)**	10000	**Casing/Liner Test(psi)**	6475
Liner Top Depth(ft)	26850	**BOP Rating(psi)**	15000	**Formation Test(ppg)**	
Cement Volume(cu ft)	704				