

## Form 133 - Electronic Version

## Well Activity Report

Beginning Date: 05/31/2015 Ending Date: 06/06/2015

REPORT IS NOT TO EXCEED 7 DAYS(1 WEEK) IN DURATION

GENERAL INFORMATION											
1. API WELL NO.(10 Digits) 60-812-40033						2. OPERATOR NAME Exxon Mobil Corporation					
3. WELL NAME JU102		4. SIDETRACK NO. 01		5. BYPASS NO. 00		6. CONTACT NAME Tack Roxanne					
7. RIG NAME OR PRIMARY UNIT(e.g. Wireless Unit, Coil Tubing Unit, etc.) MAERSK VIKING								8. WATER DEPTH		9. ELEVATION AT KB	
10. CURRENT WELLBORE INFORMATION											
SURFACE						BOTTOM					
LEASE NO. G20351		AREA NAME WR		BLOCK NO. 584		LEASE NO. G20351		AREA NAME WR		BLOCK NO. 584	
WELLBORE	START DATE	TD DATE	OP STATUS	END DATE	MD	TVD	MW PPG	LAST BOP TEST DATE	LAST BOP TEST PRESSURE		
									LOW	HIGH	
01	01/20/2015	02/26/2015	COM		30483	30453	14.5	05/28/2015	250	6200	
11. WELLBORE HISTORICAL INFORMATION											
WELLBORE	BOTTOM LEASE	START DATE	TD DATE	PLUGBACK DATE	FINAL MD	FINAL TVD					
00	G20351	02/17/2008	05/23/2008	01/20/2015	30955	30951					
12. CASING/LINER/TUBING RECORD											
TUBULAR TYPE	HOLE SIZE (IN)	SIZE (IN)	WEIGHT (#/FEET)	GRADE	TEST PRESSURE (psi)	SHOE TEST (EMW)	SETTING DEPTH (MD)		CEMENT QUANTITY (Cubic Feet)		
							LOW	HIGH			
C	12.25	10	73.9	Q-125HC	2800	0	0	15953	1199		
C	12.25	10.05	73.9	JFE-15CR-125HC	2800	0	0	15953	1199		
C	12.25	10.75	85.3	Q-125HC	2800	0	0	15953	1199		
C	14.875	13.625	88.2	Q125	2550	15	0	24500	842		
L	21	17.875	93.5	HCN-80	1800	13.4	9227	12528	2900		
L	21	18	94	X-80	1800	13.4	9227	12528	2900		
C	28	22	224.3	X-80		0	0	10206	10000		
13. OPEN HOLE TOOLS, MUDLOGS, AND DIRECTIONAL SURVEYS											
SERVICE COMPANY		DATE OPERATIONS COMPLETED		TOOL LOGGING METHOD		LOG TOOL CODES		INTERVAL DEPTH(MD)			
								TOP	BOTTOM		
NO LOGGING											
14. IDENTIFY OTHER OPEN HOLE DATA COLLECTED											
	YES	NO		YES	NO		YES	NO			
VELOCITY SURVEYS			PALEO SAMPLES			SIDEWALL SAMPLES					
CONVENTIONAL CORES			LITHO SAMPLES			GEOCHEM SAMPLES					
15. WELL ACTIVITY SUMMARY											

05/31/15: Pressure test zone 1 gravel pack assembly: a. 250 psi for 5min - good test; P/U and RIH w/ lower completion assembly from 1,961' to 2,373': 1. P/U and RIH w/ Zone 2 assembly; a. P/U Zone 1 isolation packer assembly w/ Zone 2 bottom screen. b. Observe damage on zone 1 isolation packer sealing element; i. 1/16" deep, 2" vertical cut on middle element; Discuss damaged isolation packer w/Houston: 1. Decision made to replace isolation packer 2. B/O and L/D zone 1 isolation packer assembly w/zone 2 lower screen 3. Due to isolation packer w/ lower screen for zone 2 changed, decision made to run zone 2 backup for traceability. 4. Transfer backup zone 2 assemblies from work boat and inspect same 5. P/U and RIH w/ backup zone 1 isolation packer; Back loaded primary Zone 2 RESMAN labeling: JU102 / LZ-2-X / ROS-989 / RWS-1043; P/U and RIH w/ lower completion assembly from 2,373' to 2,581': 1. P/U and RIH w/ Zone 2 backup assembly a. Zone 1 isolation packer w/ screen b. 2 x screens c. 1 x mid-joint screen d. 1 x screen Zone 2 RESMAN Labeling: BACKUP / LZ-2-X / ROS-993 / RWS-1047; L/D zone 2 top jt screen due to improper M/U of connection: 1. No torque shoulder on graph observed on graph. 2. Pin end threads gauged while backing out connection. 3. L/D Zone 2 top jt screen. 4. Superior thread rep repaired box connection. 5. P/U non-traced backup top jt screen and M/U same. a. Good graph. P/U and RIH w/lower completion assembly from 2,581' to 2,831': 1. P/U and RIH w/ zone 2 backup assembly

a. 1 x 6-5/8" blank pipe b. Gravel pack assembly i. Pressure test assembly to 250 psi for 5 min - good test; c. 4 x 6-5/8" spacer pipe; P/U and RIH w/ lower completion assembly from 2,831' to 3,225': 1. P/U and RIH w/ zone 3 assembly a. Zone 2 isolation packer w/ screen b. 2 x screens c. 1 x mid-joint screen d. 1 x screen e. 1 x top jt screen f. 1 x 6-5/8" blank pipe g. Gravel pack assembly i. Pressure test assembly to 250 psi for 5 min - failed test iii. P/U 30' and work string x 3 to wash ball seating area iv. Pressure test assembly to 250 psi for 5 min - good test h. 4 x 6-5/8" spacer pipe Zone 3 RESMAN Labeling: JU102 / LZ-3-X / ROS-990 / RWS-1044; P/U and RIH w/ lower completion assembly from 3,225' to 3,321': 1. P/U and RIH w/ zone 4 assembly

a. Zone 3 isolation packer w/ screen b. 1 x screen Zone 4 RESMAN Labeling: JU102 / LZ-4-X / ROS-991 / RWS-1045.

06/01/15: P/U and RIH w/lower completion zone 4 screens. P/U and RIH w/ R-A-L (Ratch-A-Latch) stinger to retrieve service tool assembly. Latch R-A-L w/ 8k lb down and POOH w/ R-A-L and service tool assembly. P/U VCH packer assembly. R/D tubing handling equipment and RIH w/ ESTMZ assembly from surface to 8,270'. Function BSRs and CSRs before crossing the stack.

06/02/15: RIH w/ESTMZ assy from 8,270' to 29,812' MD and burp pipe. Continue RIH and tag sump packer w/ mule shoe @ 29,911 MD. Work string through sump packer. P/U pups for space out and record weights.

06/03/15: Land out in sump packer; Set VCH packer and pressure test same: 1. Pressure test surface lines to 6,000 psi for 5 min 2. Pressure on VCH packer up to 3,500 psi

a. 500 psi steps for 2 min each 3. Bleed off pressure and P/U w/ 60k lb overpull

Pressure up to 4,000 psi for 5 min a. Observe 60k loss in string weight b. Packer set confirmed; Close UA and pressure test packer to 900 psi for 15 min - good test a. Observe annular leak .5 bbl to trip tank b. Increase annular regulator pressure to 1900 psi - leak stopped; c. 3.4 bbls pumped, 2.75 bbls bled back; Set isolation packer; Close UPR, open LIC and LOC; Pressure up to 5,400 psi to set isolation packer - successful; Pressure up in 500 psi increments for 2 min each

Hold 5,400 psi for 5 min; Perform strip test; 1. Record weights prior to strip test

1. Function UA x 3 2. Reduce annular regulator pressure to 750 psi a. Record stripping weights 3. Increase annular pressure to 1,700 psi 4. Hold 3,500 psi below annular w/ HES cement unit a. Reduce pressure down to 900 psi in increments and attempt to strip through same w/90k overpull - no success 5. Bleed off pressure

Open UA, Close LA; Hold 1,500 psi below annular w/ HES cement unit and strip through annular - success; Increase pressure below annular to 3,500 psi w/ HES cement unit and strip through annular - success; Bleed off pressure 10. Open LA; Pressure test crossover tool position: Position tool in lower completion zone w/ 20k lb down; Pressure test to 1,500 psi for 5 min - good test; Pressure test seal above initial reverse port and confirm pipe mark: 1. Close LA 2. Pressure test against lower annular to 500 psi for 3 min - good test 3. S/O w/ 80k down to confirm pipe mark for zone 1

4. P/U to neutral weight; Function test BOPs and diverter: 1. Function test BOPs from BCP, Yellow POD, SEM A 2. Function test diverter from BCP Close: 28.3 gal 29 seconds

Open: 14.8 gal 21 seconds; R/U Supreme frac iron and test same; 1. Hold TBT and PJSM

2. L/D single and 20' pup, P/U 10' pup 3. P/U frac head 4. R/U frac manifold and dual choke manifold 5. R/U lines and torque same 6. Pressure test lines to 250 psi low/10,000 psi high for 5/5 min - good test; Pump pipe scrub down drill string:

1. Lead pipe scrub w/ 10 bbls of 14.5 ppg Neptune 2. Pump 50 bbls of pipe scrub from HES cement unit down drill string.

06/04/15: Pump pipe scrub down drill string and reverse out same; 1. Troubleshoot frac head leaking top valve 2. M/U top drive and close IBOP 3. Chase pipe scrub w/ 10 bbls 14.5 ppg Neptune from HES cement unit 4. Spot pipe scrub w/ additional 590 bbls from rig pumps 5. Close LA, pump down choke line, and monitor pressure on kill line

a. Reverse out pipe scrub @ 12 bpm w/ 1,000 psi b. 155 bbls of pipe scrub and interface caught in catch tank; R/U frac iron for frac job and hold TBT for frac job:

1. Re-install manual choke in correct position; 2. Replace tubing pressure gauge 3. Swap hydraulic hoses on frac head; 4. Hold TBT and PJSM w/ everyone involved in zone 1 frac operation; Open FCS and MCS: 1. P/U 76' to place shifters above MCS and FCS

2. S/O 1' to open FCS 3. S/O 14' to open MCS a. Observe 4k lb weight down; Pressure test lines and perform circulation test from Stim Star IV: 1. Line up from Stim Star IV to overboard 2. Close overboard and pressure test to 6,000 psi for 5 min - good test 3. S/O 80k lbs to move ShurMAC to weight down circulate position 4. Pressure test lines from Stim Star IV to frac head to 14,000 psi for 5 min - good test 5. Establish circulating rates w/ 45 pptg 10.5 ppg linear gel 6. Displace lines from linear gel to 14.5 ppg Neptune; Perform DFIT (Data Fluid Injection Test) and reverse out drill: 1. Close LA w/ ShurMAC in weight down circulate position 2. Attempt DFIT, replace seal in Supreme manifold 3. Inject 14.5 ppg Neptune by pumping 45 pptg 10.5 ppg linear gel from Stim Star IV a. 25 bbls @ 10 BPM 4. Monitor leak off 5. Perform reverse out drill a. Line up on surface through Supreme choke b. Strip through LA to neutral weight and apply pressure to the backside via choke c. Strip through LA to the initial reverse position and pump down the backside @ 5 bpm d. Strip through LA 7' to the final reverse position e. Reverse out linear gel and shut down 6. Hold after action review of reverse out drill; Perform mini-frac/FET (Fluid Efficiency Test) from Stim Star IV: 1. Spot 10 bbls of 45 pptg 10.5 ppg linear gel 2. Pump 100 bbls of crosslinked 45 pptg DeepQuest fluid 3. Displace w/ 556 bbls of 45 pptg 10.5 ppg linear gel 4. Shut down and shift ShurMAC to weight down circulate position w/ 80k lb down 5. Close LA 6. Inject mini-frac @ 20 bpm w/ 100 bbls of 45 pptg 10.5 ppg linear gel 7. Shut down and monitor pressure 8. Bleed off 150 psi w/ 1.5 bbls to catch tank 9. Perform reverse out drill a. Line up on surface through Supreme choke b. Strip through LA to neutral weight and apply pressure to the backside via choke c. Strip through LA to the initial reverse position and pump down the backside @ 10 bpm d. Strip through LA 7' to the final reverse position and pump down the backside @ 10 bpm

06/05/15: Continue mini-frac reverse circulation; Wait for pressure to bleed off formation: SIDPP: 155 psi SICP: 75 psi a. Observe pressure build and equalize

SIDPP: 417 psi SICP: 417 psi b. Allow formation to bleed down SIDPP: 54 psi SICP: 30 psi; Line up for frac job; Perform frac job: 1. 20.4 bbl 45 pptg 10.5 ppg linear gel 2. 200 bbls pad 3. 250 bbls 1 PPA SLF 4. 150 bbls 2 PPA SLF 5. Shut down, open LA, S/O to ShurMAC weight down circulate position, close LA 6. 50 bbls 2 PPA SLF 7. 150 bbls 3 PPA SLF 8. 150 bbls 4 PPA SLF 9. 200 bbls 6 PPA SLF 10. 200 bbls 8 PPA SLF

11. 600 bbls 10 PPA SLF a. Decision made to extend 10 PPA SLF stage i. Annulus pressure not reacting same as models ii. Stim Star IV unable to maintain pump rate

12. Switch to flush early a. Sand falling out of gel between blender and pump, causing line packoff and equipment malfunction 13. 645 bbls flush; Bleed off and reverse circulate; Dump seals and shift MCS and FCS closed: 1. Close LA, strip up 12' to dump seals (pull all seals out of upper sealbore) 2. P/U 10' to close MCS sleeve

3. P/U 11' to close FCS sleeve 4. Bleed 16 bbls from tubing to catch tank; Pressure test ESTMZ assembly from HES cement unit:

1. Pressure test between lower annular and frac head - Unsuccessful 2. Pressure test through cement test line - Unsuccessful; Cycle MCS and FCS close only shifters through sleeves: 1. Open LA 2. Observe 10 bbl loss in TT and 10 bbl gain in catch tank from drill pipe (U-tubing) 4. Replace leaking seal on Supreme frac iron; Reverse circulate 1.5x string volume w/ rig pumps:

BPM: 12 SPP: 3230 psi 1. Observe trace amounts of sand @ 1 string volume 2. Reverse circulate additional 0.5 string volume to ensure clean 3. Flow check well - well static; Pressure test ESTMZ assembly from HES cement unit: 1. Unsuccessful 2. Monitor well on TT - well static; Cycle MCS open and close to ensure proper sleeve position

1. Observe 18 bbl sgain in TT and 7 bbl gain in catch tank; 2. Close LA; 3. Observe no pressure increase; R/D Supreme frac head: 1. Open LA and monitor well on TT - 1.6 bbl/hr gain.

06/06/15: R/D supreme frac head; 1. Flush through lines from Stim Star IV; 2. L/D frac head on pipe skate 3. Monitor well on TT - 0.9 bbl/hr gains; R/U and pressure test zone 1 sleeves from HES cement unit: 1. R/U side entry sub assembly

2. Flush through surface lines and pressure test same to 1,000 psi - successful

3. Pressure test sleeves down drill pipe and kill line to 1,000 psi - unsuccessful

a. System not full due to U-tubing effect 4. Break circulation through system 5.

Pressure test sleeves down drill pipe and kill line to 1,000 psi - successful a. 5

bbls pumped, 5 bbls bled back 6. R/D cement hose; Reverse circulate surface to surface volume: BPM: 9.5 SPP: 3,200 psi 1.

Observe sand and gel (gel is 10.5 ppg) across shakers @ ~140 bbls past bottoms up a. Lighter fluid causing U-tubing during pressure testing 2. Flow check well - well static; POOH w/ ESTMZ service tool assembly from 29,944' to 29,670' MD (Zone 2): 1.

POOH @ 20'/min to complete Protechnics logging of zone 1 2. Record weights P/U: 900k lb S/O: 865k lb 3. S/O to 20k down position 4. Pressure test crossover weldment down drill pipe from HES cement unit to 1,500 psi - successful a. 2.2 bbls pumped, 1.2 bbls bled back 5. Pressure test backside down annulus from HES cement unit to 500 psi - successful

a. 2 bbls pumped, 2 bbls bled back 6. S/O to 80k lb and 90k lb WDC (Weight Down Circulate) positions and mark pipe 7. P/U to initial reverse and final reverse positions and mark pipe; R/U Supreme equipment and pressure test surface lines: 1. R/U frac head, lines, and control lines; 2. Break circulation from HES cement unit to TT 3. Pressure test surface lines to 10,000 psi for 5 min - unsuccessful 4. Close TDX IBOP and pressure test lines to 10,000 psi for 5 min - successful a. Crown valve on frac head

leaking; Pressure test lines and perform circulation test from Stim Star IV:

1. Hold TBT and PJSM for pressure test, DFIT, mini-frac, and frac job; 2. Cycle service tool to open seal bore 1 & 2 and land on indicator coupling 3. Line up from Stim Star IV to overboard and break circulation 4. S/O 80k lbs to move ShurMAC to weight down circulate position; 5. Close overboard and pressure test to 6,000 psi for 5 min - good test; 6. Pressure test lines from Stim Star IV to frac head to 14,000 psi for 5 min - good test 7. Establish circulating rates w/ 45 pptg 10.5 ppg linear gel 8. Displace lines from linear gel to 14.5 ppg Neptune; Perform DFIT (Data Fluid Injection Test): 1. Close LA w/ ShurMAC in weight down circulate position 2. Inject 14.5 ppg Neptune by pumping 45 pptg 10.5 ppg linear gel from Stim Star IV a. 25 bbls @ 10 BPM 3. Monitor leak off; Spot fluid for mini-frac/FET (Fluid Efficiency Test) from Stim Star IV: 1. P/U to reverse position 2. Spot 10 bbls of 45 pptg 10.5 ppg linear gel 3. Pump 250 bbls of crosslinked 45 pptg DeepQuest fluid.