

Oklahoma Corporation Commission
Oil & Gas Conservation Division
Post Office Box 52000
Oklahoma City, Oklahoma 73152-2000
Rule 165: 10-3-25

Form 1002A

API No.: 35137275230001

Completion Report

Spud Date: February 18, 2018

OTC Prod. Unit No.: 137-2246840

Drilling Finished Date: July 08, 2018

1st Prod Date: December 25, 2018

Amended

Completion Date: December 23, 2018

Amend Reason: AMEND TEST DATA AND CHANGE TO GAS WELL

Drill Type: HORIZONTAL HOLE

Min Gas Allowable: Yes

Well Name: 3R 0204 5-3-34WXH

Purchaser/Measurer: TARGA PIPELINE
MIDCONTINENT

First Sales Date: 12/25/2018

Location: STEPHENS 10 2N 4W
NW NW NE NW
270 FNL 1609 FWL of 1/4 SEC
Derrick Elevation: 0 Ground Elevation: 1190

Operator: MARATHON OIL COMPANY 1363

7301 NW EXPRESSWAY STE 225
OKLAHOMA CITY, OK 73132-1590

Completion Type		Location Exception		Increased Density	
X	Single Zone	Order No		Order No	
	Multiple Zone	692392		673263	
	Commingled			674919	

Casing and Cement							
Type	Size	Weight	Grade	Feet	PSI	SAX	Top of CMT
CONDUCTOR	30"	94#	J-55	112			SURFACE
SURFACE	9 5/8"	40#	P-110HC	1598		545	SURFACE
PRODUCTION	5 1/2"	40#	P-110HC	24200		3465	SURFACE

Liner								
Type	Size	Weight	Grade	Length	PSI	SAX	Top Depth	Bottom Depth
There are no Liner records to display.								

Total Depth: 24234

Packer	
Depth	Brand & Type
There are no Packer records to display.	

Plug	
Depth	Plug Type
24088	BRIDGE PLUG

Initial Test Data

Test Date	Formation	Oil BBL/Day	Oil-Gravity (API)	Gas MCF/Day	Gas-Oil Ratio Cu FT/BBL	Water BBL/Day	Pumpin or Flowing	Initial Shut-In Pressure	Choke Size	Flow Tubing Pressure
Apr 03, 2019	WOODFORD	492	43	7682	15613	189	FLOWING	1678	36/64	

Completion and Test Data by Producing Formation

Formation Name: WOODFORD		Code: 319 WDFD		Class: GAS	
Spacing Orders		Perforated Intervals			
Order No	Unit Size	From	To		
599919	640	14230	19297		
619032	640	19331	24063		
692391	MULTIUNIT				
Acid Volumes		Fracture Treatments			
42,946 GAL OF 15% HCL ACID		337,522 BBLS OF FLUID; 15,094,080 LBS OF PROPPANT			

Formation	Top
WOODFORD	13824

Were open hole logs run? No
 Date last log run:

 Were unusual drilling circumstances encountered? No
 Explanation:

Other Remarks
AMEND TEST DATA AND CHANGE TO GAS WELL EXCEPTION TO RULE OAC 165:10-3-28(C)(2)(B) ORDERS 673622 AND 673570

Lateral Holes
Sec: 34 TWP: 2N RGE: 4W County: STEPHENS SE NE NE NW 373 FNL 2388 FWL of 1/4 SEC Depth of Deviation: 13515 Radius of Turn: 1037 Direction: 360 Total Length: 10465 Measured Total Depth: 24234 True Vertical Depth: 13743 End Pt. Location From Release, Unit or Property Line: 373

FOR COMMISSION USE ONLY
<div>Status: Accepted</div> <div>1142755</div>

TEST: ☒ INITIAL
☐ ANNUAL
☐ RETEST

OKLAHOMA CORPORATION COMMISSION
Oil & Gas Conservation Division
Post Office Box 52000
Oklahoma City, Oklahoma 73152-2000

RECEIVED

Form 1016
Rev. 2017

JUN 27 2019

BACK PRESSURE TEST FOR NATURAL GAS WELLS

OAC 165:10-17-6

Oklahoma Corporation
Commission

DATE OF TEST:

5/30/2019

DATE OF 1ST SALES: 12/25/2018

Operator		Marathon Oil Company		Operator #		01363	
Address		7301 N. W. Expressway		City		Oklahoma City	
E-mail		escrump@marathonoil.com		Ph		(405) 728-5205	
Gas Volume Reporter		Marathon Oil Company		Gas Volume Reporter #		01363	
Producing Zone		Woodford		Well Name/#		3R 0204 5-3-34WXH	
Surface Location		NW 1/4 NW 1/4 NE 1/4 NW 1/4		API #		13727523 -1	
Zone Location (if different)		1/4 1/4 1/4 1/4		OTC Lease #		137-224684	
Field				(OCC use) Allowable #			
				County		Stephens	
				Spacing Size		640	

COMPLETION: ☒ Single ☐ Multiple Zone ☐ Commingled ☐ Recompletion Date of Completion 12/23/18

Total Depth	24234	Plug Back Depth		Packer Set Depth		Elevation	1190
Csg Size	5.5	WT	40#	Depth Set	24200	Perfs.	14230-24063
Tbg Size		WT		Depth Set		Perfs.	
Prod. Thru	Casing	Res. Temp. F	251	Mean Grd. Temp. F		Atm. Press. PSIA	
L	13743	H	24234	G _g	.7731	%CO ₂	
				%N ₂		H ₂ S(ppm)	
				Prover		Meter Run	
				Taps			

SHUT-IN DATA		FLOW DATA						TUBING DATA		CASING DATA		BHP DATA		FLOW (HRS)
PRESS	(HRS)	LINE SIZE	X	ORIFICE SIZE	PRESS (PSIG)	DIFF (INCHES) (ROOTS)	TEMP (F)	PRESS (PSIG)	TEMP (F)	PRESS (PSIG)	TEMP (F)	PRESS (PSIG)	TEMP (F)	
1663	24	3.067		2	206	236	77			1590				24

RATE OF FLOW CALCULATIONS

COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	PRESSURE P _m	FLOW TEMP. FACTOR F _t	GRAVITY FACTOR F _g	SUPER COMPRESS FACTOR F _{pv}	RATE OF FLOW (Q) MCFD
29.09						8450

P _r	TEMP. R	T _r	Z
			.9959

Gas/Liquid Hydrocarbon Ratio		MCF/BBL	
API Gravity of Liquid Hydrocarbons		Deg.	
Specific Gravity Separator Gas	.7731	Specific Gravity Flowing Fluid	
Critical Pressure	PSIA	Critical Pressure	PSIA
Critical Temperature	R	Critical Temperature	R

P_c 1663 (PSIA) P_c² 2,765,569

P _w	P _w ²	P _c ² - P _w ²
206	42,436	2,723,133

[1] $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0$ (Not to exceed 5.263)

[2] $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0$ WHAOF=Q

10-02N-04W(SL): -0-
03-02N-04W: 51.72% 224684 I
34-03N-04W: 48.28% 224684A I
= 66918
66918

Calculated wellhead open flow	66918	MCFD @ 14.65	Angle of Slope	Slope, n
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Remarks

Approved by Commission: *DR* Conducted by: Calculated by: Checked by:

WITNESSED - OCC FIELD STAFF: Y ☐ N ☐ NAME: *John [Signature]* (over) DATE: 6-20-19

E2
E2

DR

IF THE ALLOWABLE FOR THIS WELL HAS BEEN ADJUSTED BY COMMISSION ORDER, PLEASE GIVE THE ORDER NUMBER(S) IN ONE OR MORE OF THE CATEGORIES BELOW:

INCREASED DENSITY _____ LOCATION EXCEPTION* _____

COMMINGLING _____ MULTIPLE ZONE _____

SEPARATE OR SPECIAL ALLOWABLE* 685284 (Sec. 34)

OTHER PENALTY ORDER(S)* Multisuit FO: 692391

* FOR THESE ORDER TYPES, PLEASE DESCRIBE ALLOWABLES AND/OR PENALTIES:

I declare that I have knowledge of the contents of this report and am authorized by my organization to make this report, which was prepared by me or under my supervision and direction, with the data and facts stated herein to be true, correct and complete to the best of my knowledge and belief.

Suzie Crump

Regulatory Compliance

SIGNATURE

TITLE

Marathon Oil Company

06/13/19

(405) 728-5205

COMPANY

DATE

PHONE NO.

Pc SHUT-IN PRESSURE, PSIA (LENGTH OF SHUT-IN MINIMUM OF 24 HOURS).

Pw STATIC COLUMN WELLHEAD PRESSURE CORRESPONDING TO THE FLOWING WELLHEAD PRESSURE, PSIA (TO BE RECORDED AT END OF EACH FLOW RATE.) THE VALUE OF Pw SHOULD NOT EXCEED 90% OF Pc.

Gg SPECIFIC GRAVITY OF SEPARATOR GAS (AIR = 1.000).

L LENGTH OF THE FLOW STRING FROM THE MIDDLE OF THE PRODUCING FORMATION TO THE PRESSURE POINT AT WELLHEAD, FEET.

H VERTICAL DEPTH CORRESPONDING TO L, FEET.

Q 24 HOUR RATE OF FLOW, MCF/D.

d INSIDE DIAMETER, INCHES.

R DEGREES, RANKINE (DEGREES FAHRENHEIT ABSOLUTE).

Pr REDUCED PRESSURE, DIMENSIONLESS.

Tr REDUCED TEMPERATURE, DIMENSIONLESS.

Z COMPRESSIBILITY FACTOR, DIMENSIONLESS.