

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.: 35137275240001

Completion Report

Spud Date: February 19, 2018

OTC Prod. Unit No.: 137-2246970

Drilling Finished Date: May 20, 2018

1st Prod Date: December 24, 2018

Amended

Completion Date: December 15, 2018

Amend Reason: AMEND TEST DATA AND CHANGE TO GAS WELL

Drill Type: HORIZONTAL HOLE

Min Gas Allowable: Yes

Well Name: 3R 0204 6-3-34WXH

Purchaser/Measurer: TARGA PIPELINE MID-CONTINENT

First Sales Date: 12/24/2018

Location: STEPHENS 10 2N 4W
NW NW NE NW
270 FNL 1589 FWL of 1/4 SEC
Derrick Elevation: 0 Ground Elevation: 1191

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	692394		674919	
	Commingled			673263	

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	1599		545	SURFACE
PRODUCTION	5 1/2"	23#	P-110	24725		3265	SURFACE

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

Total Depth: 24725

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

Plug	
Depth	Plug Type
24593	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 01, 2019	WOODFORD	420	43	6800	16190	276	FLOWING	1640	34/64	

Completion and Test Data by Producing Formation

Formation Name: WOODFORD

Code: 319 WDFD

Class: GAS

Spacing Orders

Order No	Unit Size
619032	640
599919	640
692393	MULTIUNIT

Perforated Intervals

From	To
14551	24572

Acid Volumes

48,994 GALS 15% HCL ACID

Fracture Treatments

350,935 BBLS OF FLUID; 15,580,512 LBS OF PROPPANT
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Formation	Top
WOODFORD	14113

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

Lateral Holes

Sec: 34 TWP: 2N RGE: 4W County: STEPHENS

NE NW NE NW

225 FNL 1719 FWL of 1/4 SEC

Depth of Deviation: 13774 Radius of Turn: 659 Direction: 360 Total Length: 10613

Measured Total Depth: 24725 True Vertical Depth: 13993 End Pt. Location From Release, Unit or Property Line: 225

FOR COMMISSION USE ONLY

1142768

Status: Accepted

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

DATE OF TEST:

5/30/2019

Oklahoma Corporation
Commission

DATE OF 1ST SALES: 12/24/2018

Operator				Marathon Oil Company				Operator #		01363	
Address				7301 N. W. Expressway				City		Oklahoma City	
E-mail				escrump@marathonoil.com		Ph		(405) 728-5205		Fax	
Gas Volume Reporter				Marathon Oil Company				Gas Volume Reporter #		01363	
Producing Zone				Woodford				Well Name/#		3R 0204 6-3-34WXH	
Surface Location				NW 1/4 NW 1/4 NE 1/4 NW 1/4				API #		13727524	
Zone Location (if different)				1/4 1/4 1/4 1/4				OTC Lease #		137-224697	
Field								(OCC use) Allowable #		(see below)	
								County		Stephens	
								Spacing Size		640	

COMPLETION: ☒ Single ☐ Multiple Zone ☐ Commingled ☐ Recompletion Date of Completion 12/15/18

Total Depth	24725	Plug Back Depth		Packer Set Depth		Elevation	1191
Csg Size	5.5	WT	23#	Depth Set	24725	Perfs.	14551-24572
Tbg Size		WT		Depth Set		Perfs.	
Prod. Thru	Casing	Res. Temp. F	254	Mean Grd. Temp. F		Atm. Press. PSIA	
L	13993	H	24725	G _g	.7868	%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)	PROVER			DIFF			PRESS (PSIG)	TEMP (F)	PRESS (PSIG)	TEMP (F)	PRESS (PSIG)	TEMP (F)	
		LINE SIZE	X	ORIFICE SIZE	PRESS (PSIG)	(INCHES) (ROOTS)	TEMP (F)							
1542	24	3.067		2	215	398	70			1306				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						7460

P _r	TEMP. R	T _r	Z
			.9957

Gas/Liquid Hydrocarbon Ratio		MCF/BBL
API Gravity of Liquid Hydrocarbons		Deg.
Specific Gravity Separator Gas	.7868	Specific Gravity Flowing Fluid
Critical Pressure	PSIA	Critical Pressure
Critical Temperature	R	Critical Temperature

P_c 1542 (PSIA) P_c² 2,377,764

P _w	P _w ²	P _c ² - P _w ²
215	46,225	2,351,539

[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

Calculated wellhead open flow	30,877	MCFD @ 14.65	Angle of Slope	Slope, n
Remarks				
E 2018: -				
Approved by Commission:	Conducted by:	Calculated by:	Checked by:	
WITNESSED - OCC FIELD STAFF: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>		NAME: <i>James Hughes</i> (over)	DATE: 6-20-19	

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)* Multinut FO: 692393

* 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

06/17/19

(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.