

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.: 35051244090000

Completion Report

Spud Date: July 19, 2018

OTC Prod. Unit No.: 05122540500000

Drilling Finished Date: January 07, 2019

1st Prod Date: April 24, 2019

Completion Date: April 22, 2019

Drill Type: HORIZONTAL HOLE

Well Name: ELLIS 0506 3-25-36WXH

Purchaser/Measurer: ENABLE GATHERING &
PROCESSING

First Sales Date: 4/22/2019

Location: GRADY 24 5N 6W
SW SE SW SW
226 FSL 912 FWL of 1/4 SEC
Derrick Elevation: 1277 Ground Elevation: 1152

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	680085		678326	
	Commingled				

Casing and Cement							
Type	Size	Weight	Grade	Feet	PSI	SAX	Top of CMT
CONDUCTOR	20	106.50	J55	100			SURFACE
SURFACE	13 3/8	54.50	K55	1468		625	SURFACE
INTERMEDIATE	9 5/8	40	P110HC	12031		785	6981
PRODUCTION	5 1/2	23	P110	25101		3120	7857

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

Total Depth: 25184

Packer		Plug	
Depth	Brand & Type	Depth	Plug Type
There are no Packer records to display.		25035	CIBP

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
May 06, 2019	WOODFORD	452	56	16187	35810	2367	FLOWING	3363	40/64	

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		
457901	640	14700	25021		
Acid Volumes		Fracture Treatments			
11,252 GALS OF 15% HCL ACID		357,047 BBLS OF FLUID 16,475,699 LBS OF PROPPANT			

Formation	Top
WOODFORD	14183

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

Were unusual drilling circumstances encountered? No
Explanation:

Other Remarks
OCC: THIS DOCUMENT IS BEING ACCEPTED BASED ON THE DATA SUBMITTED. NEITHER THE FINAL LOCATION EXCEPTION NOR THE FINAL MULTIUNIT ORDERS HAVE BEEN ISSUED

Lateral Holes
Sec: 36 TWP: 5N RGE: 6W County: GRADY SE SE SW SW 48 FSL 1274 FWL of 1/4 SEC Depth of Deviation: 14020 Radius of Turn: 666 Direction: 182 Total Length: 10770 Measured Total Depth: 25184 True Vertical Depth: 14608 End Pt. Location From Release, Unit or Property Line: 48

FOR COMMISSION USE ONLY
<div>Status: Accepted</div> <div>1142718</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. 2018

OCT 30 2019

BACK PRESSURE TEST FOR NATURAL GAS WELLS

OAC 165:10-17-6

DATE OF TEST:

6/19/2019

DATE OF 1ST SALES: 4/22/2019

Operator Marathon Oil Company		Operator # 01363	
Address 7301 NW Expressway, Suite 225		City Oklahoma City	ST OK ZIP 73132
E-mail brsmith@marathonoil.com	Ph 405-728-5228	Fax	Well Name/# Ellis 3-25-36 WXH
Gas Volumes to be Reported to OCC by: Enable Gathering & Processing		Gas Volume Reporter # 22589	API # 3505124409
Producing Zone Woodford 319 WDFD		OTC Lease # 051225405	
Surface Location 226 FSL - 912 FWL SW 1/4 SE 1/4 SW 1/4 SW 1/4		Sec 24	Twp 5N Rge 6W
Zone Location (if different) 1/4 1/4 1/4 1/4		Sec	Twp Rge County Grady
Field		Spacing Size 640	

COMPLETION: ☒ Single ☐ Multiple Zone ☐ Commingled ☐ Recompletion Date of Completion 04/22/19

Total Depth 25184	Plug Back Depth	Packer Set Depth	Elevation 1152
Csg Size 5.5	WT d	Depth Set	Perfs. 14700
Tbg Size	WT d	Depth Set	Perfs. 25021
Prod. Thru Casing	Res. Temp. F 266 @	Mean Grd. Temp. F	Atm. Press. PSIA
L 14608	H 25184	G _g .6892	%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)	(INCHES) (ROOTS)	TEMP (F)	PRESS (PSIG)	TEMP (F)	PRESS (PSIG)	TEMP (F)	PRESS (PSIG)	TEMP (F)	
2843.8	24	3.625		6.065	265.5	273.9	105			1324				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
87.9						14889

P _r	TEMP. R	T _r	Z
			.9968

Gas/Liquid Hydrocarbon Ratio		MCF/BBL	
API Gravity of Liquid Hydrocarbons		Deg.	
Specific Gravity Separator Gas	.6892	Specific Gravity Flowing Fluid	
Critical Pressure	PSIA	Critical Pressure	PSIA
Critical Temperature	R	Critical Temperature	R

P_c 2843.8 (PSIA) P_c² 8087198.44

P _w	P _w ²	P _c ² - P _w ²
265.5	70490.25	8016708.19

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

[2] $\frac{P_c^2}{P_c^2 - P_w^2} = 1$ WHAOF=Q

$\frac{P_c^2}{P_c^2 - P_w^2} = 36748$

Calculated wellhead open flow MCFD @ 14.65	Angle of Slope	Slope, n
Remarks Irregular 640-acre unit: w/2 Sec. 25 & w/2 Sec. 36		
Approved by Commission:	Conducted by:	Calculated by:
WITNESSED - OCC FIELD STAFF: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>		DATE: 10-18-19

NAME: (over)

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 * 679161

OTHER PENALTY ORDER(S) * _____

* 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.

Brittney Smith

Brittney Smith

Regulatory Compliance Representative

SIGNATURE

TITLE

Marathon Oil Company

07/30/19

405-728-5228

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.