Oklahoma Corporation Commission Oil & Gas Conservation Division Post Office Box 52000 Oklahoma City, Oklahoma 73152-2000

Rule 165: 10-3-25

API No.: 35039225330000 **Completion Report** Spud Date: July 11, 2018

OTC Prod. Unit No.: 03922500600000 Drilling Finished Date: September 06, 2018

1st Prod Date: February 15, 2019

Completion Date: January 09, 2019

Drill Type: HORIZONTAL HOLE

Well Name: MANNERING 1H-4-9 Purchaser/Measurer: CITIZEN MIDSTREAM

CUSTER 4 15N 16W Location:

SW SW SW NE

2390 FNL 2430 FEL of 1/4 SEC

Latitude: 35.8059211 Longitude: -98.90617268 Derrick Elevation: 1866 Ground Elevation: 1833

CITIZEN ENERGY III LLC 24120 Operator:

> 320 S BOSTON AVE STE 900 TULSA, OK 74103-3729

	Completion Type
Х	Single Zone
	Multiple Zone
	Commingled

Location Exception
Order No
697605

Increased Density	
Order No	
695465	

First Sales Date: 02/15/2019

		Cas	sing and Ceme	nt			
Туре	Size	Weight	Grade	Feet	PSI	SAX	Top of CMT
SURFACE	9.625	36	J-55	1035		398	SURFACE
INTERMEDIATE	7	23	HCP-110	10522		495	7500
PRODUCTION	5	18	HCP-110	21955		863	9000
CONDUCTOR	20	55		60			

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

Total Depth: 21955

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

Plug						
Depth Plug Type						
There are no Plug records to display.						

Initial Test Data

July 25, 2019 1 of 2

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
Jun 19, 2019	MISSISSIPPIAN	10	54	6114	611400	260	FLOWING	5323	16	4917

Completion and Test Data by Producing Formation

Formation Name: MISSISSIPPIAN

Code: 359 MSSP

Class: GAS

Spacing Orders					
Order No	Unit Size				
677011	640				
697604	MULTIUNIT				

Perforated Intervals				
From	То			
13490	21835			

•
Acid Volumes
39, 000 GALLONS

Fracture Treatments
20,489,675 POUNDS OF PROPPANT; 464,251 BBLS

Formation	Тор
MERAMEC UPPER A	13390

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

Were unusual drilling circumstances encountered? No Explanation:

Other Remarks

There are no Other Remarks.

Lateral Holes

Sec: 9 TWP: 15N RGE: 16W County: CUSTER

SE SW SW SE

50 FSL 2008 FEL of 1/4 SEC

Depth of Deviation: 13256 Radius of Turn: 303 Direction: 172 Total Length: 8102

Measured Total Depth: 21955 True Vertical Depth: 13711 End Pt. Location From Release, Unit or Property Line: 50

FOR COMMISSION USE ONLY

1141914

Status: Accepted

July 25, 2019 2 of 2

L.R. McBRIDE, INC.

TEST: X INITIAL ANNUAL RETEST

OKLAHOMA CORPORATION COMMISSION

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

RECEIVED

JUL 1 7 2019

Form 1016 Rev. 2017

Oklahoma Corporation Commission

BACK PRESSURE TEST FOR NATURAL GAS WELLS

,19					(0AC 165:10-1 DATI	7-6 E OF TEST:	07/	08/19	DATE O	F 1 ST SAL	ES: 0	2/15/19
Operator	CITIZE	N ENERG	Y III, L.L.C).						Operato		241	
Address	320 S.	320 S. BOSTON AVENUE, SUITE 900 City TULSA						ULSA	ST C	OK ZIP	7410	3-4702	
E-mail	bpmcb	ride@aol.c	om		Ph	(405) 6	70-1355	Fax (405)	670-3161	Well Name/#	MANN	IERING	3 1H-4-9
Sas Volume Reporter	CITIZE	N MIDSTI	REAME	VERC	-/		Gas Volume Reporter #	241	20-0	API#		039-22	5006
Producing Cone	MERA	_	53 MR				reporter #			OTC Lease #	639	22	5077-
Surface .ocation				SW 1/4 S	SW 1/4	NE 1/4 S	Sec 4	Twp 15N	Rge 16W	(OCC u	ise)	ee b	1 1
one Location			SE 1/4	SW 1/4 S	SW 1/4	SE 1/4 S	Sec 9	Twp 15N	Rge 16W	County		CUSTE	10)
ield								A.		Spacing	g Size	64	0 ac.
OMPLETION	N:	X Single	,	Multiple Zo	ne	Comm	ningled	Recomp	oletion Da	te of Con	npletion	01/	09/19
otal Depth	-	21955	Plug Back [Depth	21	951	Packer Set	Dept!		Elevation	n	1833	G.L
sg Size	5	.000	WT	18 d		4.276	Depth Set		21955	Perfs.			35 (MD)
bg Size		.875	WT	6.5		2.441	Depth Se		13738	Perfs.	10100	210.	30 (1112)
rod. Thru		TUBING	Res. Tem				33 Mean Gro		60		ss. PSIA	1	4.4
17663	_	3583 G _g	0.6118 %0			0.413 H		2.0 Prover		ter Run	3.068		FLANGE
SHUT-IN I				FLOW DA			29(pp) Z	TUBING DA		G DATA	T	DATA	1 2741401
	T		PROVER			DIFF	*						FLOW
PRESS	(HRS)	LINE SIZE	X		SIG)	(INCHES) (ROOTS)			EMP PRESS (F) (PSIG)	TEMP (F)	PRESS (PSIG)	TEMP (F)	(HRS)
5323	24	3	1.	250 1	014	327.7	98	4197 1	31 5081	131	, is a		24.00-
COEFE	CIENT (24	HOUR	$\sqrt{h_w P_m}$	PRESSUR	E FL	OW TEMP. F/	ACTOR C	GRAVITY FACT	OR SUPER	COMPRE	ESS	RATE OF	FLOW
OOLITIK	7.771	HOOK)	580.52	P _m		0.9653		F _g 1.278		CTOR F _{pv}		(Q) M	
					_								
Pr	_	TEMP. R	T _r	Z		G	as/Liquid Hyd	Irocarbon Ratio	-	597	.300		MCF/BBL
1.53		558	1.54	0.869		S	PI Gravity of L pecific Gravity eparator Gas	iquid Hydrocari	0.612	Specific Flowing		0.	Deg. 617
						C	ritical ressure	671	PSIA	Critical Pressure		671	PSIA
· 533	37.4	(PSIA)	P _c ²	28487.8			ritical emperature	362	Ŗ	Critical Tempera	ature	362	R
P _w		P _w ²	P _c ² - P _w ²			Muff	renit!	Coc	4: 38	3.7837	790	2250	77
5095.4		25963.1	2524.7			3		Sec	9:61			2251	AFF
		5.2	2630	*	P _c ²	n	1.40			P _c ²] =	2450	
$\frac{P_c^2}{P_c^2}$	=				D 4 D	4 :	= 4.102	25 * WHA	OF=Q F	$P_{c}^{2} - P_{w}^{2}$		245	00
2			ceed 5.263)	[2]	P _c ² - P	w						1	
[1] P _c ² - P _c	, 2 w	(Not to ex	ceed 5.263) 2450			D @ 14.65		Angle of Slope		6 Slop	pe, n	0.85	00
1] P _c ² - P _c	nead open t	(Not to ex		3	MCF	D @ 14.65				6 Slop	oe, n	0.85	00
P _c ² - P _o alculated wellh emarks Oil	nead open t	(Not to exflow	2450	3 r Producti	MCF on = 5	D @ 14.65				6 Slop	pe, n	0.85	00
P _c ² - P _o	Produc	(Not to exflow	2450 BPD ; Wate	r Producti Per OCC F	MCF on = 5	D @ 14.65	Calculated	Angle of Slope		6 Slop		0.85	00

L.R. McBRIDE, INC.

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:

IN	CREASE	ED DENSITY	679976	LOCATION EXCEPTION 690366					
C	OMMING	LING		MULTIPLE ZONE					
SI	EPARAT	E OR SPECIAL ALLOW	'ABLE *						
0	THER PE	ENALTY ORDER(S)*	Muffigurt F	0: 697604					
* /	OR THE	ESE ORDER TYPES, PL	LEASE DESCRIBE ALLOWA	BLES AND/OR PENALTIES:					
_	1.7								
- Company	which	was prepared by me or than domplete to the beautiful to t	under my supervision and diest of my knowledge and beli		stated herein to be true, Petroleum Consultant				
	SIGNA	TURE /		TITLE					
		L.R. McBride	e, Inc.	07/12/19	(405) 670-1355				
	COMP	ANY		DATE	PHONE NO.				
	D-								
	Pc			IN MINIMUM OF 24 HOURS).					
	Pw	STATIC COLUMN WI PSIA (TO BE RECOR OF Pc.	ELLHEAD PRESSURE COR DED AT END OF EACH FLO	RESPONDING TO THE FLOW DW RATE.) THE VALUE OF P	ING WELLHEAD PRESSURE, w SHOULD NOT EXCEED 90%				
	Gg	SPECIFIC GRAVITY	OF SEPARATOR GAS (AIR	= 1.000).					
	L	LENGTH OF THE FLO PRESSURE POINT A	OW STRING FROM THE MIL T WELLHEAD, FEET.	DDLE OF THE PRODUCING FO	ORMATION TO THE				
	Н	VERTICAL DEPTH C	ORRESPONDING TO L, FEE	ĒT.					
	Q	24 HOUR RATE OF F	LOW, MCF/D.						
	d	INSIDE DIAMETER, I	NCHES.						
	R	DEGREES, RANKINE	(DEGREES FAHRENHEIT	ABSOLUTE).					
	Pr	REDUCED PRESSUR	RE, DIMENSIONLESS.						
	Tr	REDUCED TEMPERA	TURE, DIMENSIONLESS.						
	Z	COMPRESSIBILITY F	ACTOR, DIMENSIONLESS.						

11/2019

Oklahoma Corporation Commission Oil & Gas Conservation Division Post Office Box 52000 Oklahoma City, Oklahoma 73152-2000

Rule 165: 10-3-25 Rec'd 1016

7-17-2019

Completion Report

1002A

Form 10024

Spud Date: July 11, 2018

Drilling Finished Date: September 06, 2018

1st Prod Date: February 15, 2019

Completion Date: January 09, 2019

API No.: 4039225330000

OTC Prod. Unit No.: 03922500600000

039-225077-0-0000

Drill Type: HORIZONTAL HOLE

Well Name: MANNERING 1H-4-9

Location:

CUSTER 4 15N 16W

SW SW SW NE

2390 FNL 2430 FEL of 1/4 SEC

Latitude: 35.8059211 Longitude: -98.90617268 Derrick Elevation: 1866 Ground Elevation: 1833

Operator:

CITIZEN ENERGY III LLC 24120

320 S BOSTON AVE STE 900 TULSA, OK 74103-3729

Purchaser/Measurer: CITIZEN MIDSTREAM

First Sales Date 2/15/2019

02/15/2019

Multiunit.

Sec. 4 (66): 38.7837% 225077]

Sec. 9: 61.2163% 225077AI

	Completion Type							
X	Single Zone							
	Multiple Zone							
	Commingled							

Location Exception						
	Order No					
	697605					

Increased Density	
Order No	
695465	

Casing and Cement							
Туре	Size	Weight	Grade	Feet	PSI	SAX	Top of CMT
SURFACE	9.625	36	J-55	1035		398	SURFACE
INTERMEDIATE	7	23	HCP-110	10522		495	7500
PRODUCTION	5	18	HCP-110	21955		863	9000
CONDUCTOR	20	55		60			

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

Total Depth: 21955

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

	Plug
Depth	Plug Type
There are no P	lug records to display.

Initial Test Data

July 25, 2019 6-19-19 359 MSSP EZEZ

5323 psi

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
Jun 19, 2019	MISSISSIPPIA	N 10	54	6114	611400	260	FLOWING	5323	16	4917
		Cor	npletion and	i Test Data I	by Producing F	ormation				
.•	Formation Name:	MISSISSIPPIAN		Code: 35	59 MSSP	C	Class: GAS			
	Spacing Orde	ers		· · · · · · · · · · · · · · · · · · ·	Perforated I	ntervals				
Orde	Order No Unit Size			Fron	n	То				
6770	011(4)(9)	640 H 1		13490		21835				
6976	504	MULTIUNIT	<u> </u>		1					
Acid Volumes				W	Fracture Tre	atments		1		
39, 000 GALLONS				0 489 675 P	OLINDS OF PR	ODDANT: 46	SA 251 BBI S	-		

Formation	Тор				
MERAMEC UPPER A	13390				

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

Were unusual drilling circumstances encountered? No Explanation:

Other	Remarks
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There are no Other Remarks.

Lateral Holes

Sec: 9 TWP: 15N RGE: 16W County: CUSTER

SE SW SW SE

50 FSL 2008 FEL of 1/4 SEC

Depth of Deviation: 13256 Radius of Turn: 303 Direction: 172 Total Length: 8102

Measured Total Depth: 21955 True Vertical Depth: 13711 End Pt. Location From Release, Unit or Property Line: 50

FOR COMMISSION USE ONLY

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Status: Accepted