

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.: 35129241110000

Completion Report

Spud Date: February 14, 2018

OTC Prod. Unit No.: 129-22399-0-00000

Drilling Finished Date: March 28, 2018

1st Prod Date: September 06, 2018

Amended

Completion Date: August 29, 2018

Amend Reason: CORRECT BHL FOOTAGES; UPDATE ORDERS

Drill Type: HORIZONTAL HOLE

Well Name: CAMPBELL 3-12H

Purchaser/Measurer: MARKWEST

Location: ROGER MILLS 12 11N 23W
SE SE SW SE
250 FSL 1500 FEL of 1/4 SEC
Latitude: 35.4367873 Longitude: -99.5804896
Derrick Elevation: 2130 Ground Elevation: 2100

First Sales Date: 9/6//18

Operator: JMA ENERGY COMPANY LLC 20475

1021 NW GRAND BLVD
OKLAHOMA CITY, OK 73118-6039

Completion Type	
X	Single Zone
	Multiple Zone
	Commingled

Location Exception	
Order No	
674117	

Increased Density	
Order No	
673077	

Casing and Cement							
Type	Size	Weight	Grade	Feet	PSI	SAX	Top of CMT
SURFACE	13 3/8	48	H-40	841		990	SURFACE
INTERMEDIATE	9 5/8	40	J-55	6504		825	SURFACE
PRODUCTION	5 1/2	20	P-110	17315		1970	9568

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

Total Depth: 17315

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

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
Sep 06, 2018	MARMATON	52	47	2457	47250	2934	FLOWING	2477	48/64	1244

Completion and Test Data by Producing Formation

Formation Name: MARMATON

Code: 404MRMN

Class: GAS

Spacing Orders

Order No	Unit Size
18328	640

Perforated Intervals

From	To
13307	17300

Acid Volumes

543 BBL 15% HCL

Fracture Treatments

186,537 BBL FLUID 6,503,955 LBS TOTAL PROP

Formation	Top
MARMATON	12510

Were open hole logs run? No

Date last log run:

Were unusual drilling circumstances encountered? Yes

Explanation: 13 3/8" CASING GOT STUCK WHILE RUNNING IN HOLE. CASING STUCK AT 841'. COULD NOT GET FREE. HOLE DEPTH 1000'. CONTACTED OCC INSPECTOR GARY MATLI AND GOT PERMISSION TO SHORT SET.

Other Remarks

There are no Other Remarks.

Lateral Holes

Sec: 12 TWP: 11N RGE: 23W County: ROGER MILLS

SE NE NW NE

338 FNL 1524 FEL of 1/4 SEC

Depth of Deviation: 12377 Radius of Turn: 821 Direction: 360 Total Length: 3647

Measured Total Depth: 17315 True Vertical Depth: 13072 End Pt. Location From Release, Unit or Property Line: 336

FOR COMMISSION USE ONLY

Status: Accepted

1141088

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MAR 13 2019

MAR 08 2019

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CommissionTEST: ☒ INITIAL
☐ ANNUAL
☐ RETEST

OKLAHOMA CORPORATION COMMISSION

Oil & Gas Conservation Division

Post Office Box 52000-2000

Oklahoma City, Oklahoma 73152-2000

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MAR 06 2019

Form 1016
Rev. 2017Oklahoma Corporation
Commission

BACK PRESSURE TEST FOR NATURAL GAS WELLS

OAC 165:10-17-6

DATE OF TEST: 09/28/18

DATE OF 1ST SALES: 9/6/18

Operator JMA ENERGY COMPANY, L.L.C.		Operator # 20475	
Address 1021 NW GRAND BLD		City Oklahoma City	ST OK ZIP 73118
E-mail <u>dannahmes@jma-energy.com</u>	Ph <u>405-418-2777</u>	Fax <u>405-418-2546</u>	Well Name/# CAMPBELL # 3-12H
Gas Volume <u>MARKWEST</u>	Gas Volume <u>20475-24544</u>	API # 35-129-24111	
Reporter <u>JMA</u>	Reporter # <u>20475-24544</u>	OTC Lease # 129-223990-0	
Producing Zone <u>MARMATON</u>	Zone Location SE 1/4 SE 1/4 SW 1/4 SE 1/4 Sec 12 Twp 11N Rge 23W		
Surface Location	Zone Location NE 1/4 NW 1/4 NE 1/4 1/4 Sec 12 Twp 11N Rge 23W		
(If different)	County ROGER MILLS		
Field	Spacing Size 640 AC		

COMPLETION. ☒ Single ☐ Multiple Zone ☐ Commingled ☐ Recompletion Date of Completion 09/06/18

Total Depth 17315	Plug Back Depth	Packer Set Depth	Elevation 2099 GL
Csg Size 5.500	WT 20 d 4.778	Depth Set 17315	Perfs. 13307 - 17300 (MD)
Tbg Size	WT d	Depth Set	Perfs.
Prod. Thru CASING	Res. Temp. F 234 @ 13016	Mean Grd. Temp. F 60	Atm. Press. PSIA 14.4
L 15304 H 13016 G _s 0.6891 %CO ₂ 0.600 %N ₂ 0.456 H ₂ S(ppm)	Prover	Meter Run 6.065	Taps FLANGE

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)	
3774	24	6		2.750	89	80.3	110			955	120	24.00

COEFFICIENT (24 HOUR)	$\sqrt{h_p P_m}$	PRESSURE P _m	FLOW TEMP. FACTOR F _t	GRAVITY FACTOR F _g	SUPER COMPRESS FACTOR F _{pv}	RATE OF FLOW (Q) MCFD
37.94	91.14	103.4	0.9551	1.205	1.000	3979

P _r	TEMP R	T _r	Z
0.15	570	1.48	1.000

Gas/Liquid Hydrocarbon Ratio 64.489 MCF/BBL	
API Gravity of Liquid Hydrocarbons 47 Deg.	
Specific Gravity Separator Gas 0.689	Specific Gravity Flowing Fluid 0.738
Critical Pressure 669 PSIA	Critical Pressure 668 PSIA
Critical Temperature 385 R	Critical Temperature 401 R

P_c 3788.4 (PSIA) P_c² 14352.0

P _w	P _w ²	P _c ² - P _w ²
974.0	948.7	13403.3

$$[1] \frac{P_c^2}{P_c^2 - P_w^2} = 1.0708 \quad (\text{Not to exceed 5.263})$$

$$[2] \frac{P_c^2}{P_c^2 - P_w^2} = 1.0599 \quad \text{WHAOF-Q}$$

$$\frac{P_c^2}{P_c^2 - P_w^2} = 4217$$

Calculated wellhead open flow 4217 MCFD @ 14.65	Angle of Slope 49.6	Slope, n 0.8500
Remarks Oil Production = 61.7 BPD ; Water Production = 2274 BPD		

NOTE: Shut-In Pressure is from average field pressure calculation by Mike Davis.

Approved by Commission:	Conducted by: JMA	Calculated by: BPM	Checked by:
WITNESSED - OCC FIELD STAFF: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>		NAME: <u>Kyle Avery</u>	DATE: 3-11-19

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