

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.: 35009219870000

**Completion Report**

Spud Date: September 11, 2017

OTC Prod. Unit No.: 009-222796

Drilling Finished Date: October 18, 2017

1st Prod Date: November 14, 2017

Completion Date: October 22, 2017

**Drill Type:** HORIZONTAL HOLE

Well Name: RUTH 6-11-22 1HA

Purchaser/Measurer:

Location: BECKHAM 6 11N 22W  
SW NE NW NW  
400 FNL 700 FWL of 1/4 SEC  
Latitude: 35.46397783 Longitude: -99.57302021  
Derrick Elevation: 2177 Ground Elevation: 2152

First Sales Date: 11/14/2017

Operator: FOURPOINT ENERGY LLC 23429

100 SAINT PAUL ST STE 400  
DENVER, CO 80206-5140

Completion Type		Location Exception		Increased Density	
X	Single Zone	Order No		Order No	
	Multiple Zone	675609		There are no Increased Density records to display.	
	Commingled				

Casing and Cement							
Type	Size	Weight	Grade	Feet	PSI	SAX	Top of CMT
SURFACE	13 3/8	48	H-40	662	1730	735	SURFACE
INTERMEDIATE	9 5/8	40	J-55	6467	3950	950	2400
PRODUCTION	5 1/2	20	P-110	17879	12630	2250	5141

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

**Total Depth: 17890**

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
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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
Jan 10, 2018	DES MOINES	44	47	2545	57841	1666	FLOWING	1064	40/64	1447

Completion and Test Data by Producing Formation

Formation Name: DES MOINES		Code: 404DSMN		Class: GAS	
Spacing Orders		Perforated Intervals			
Order No	Unit Size	From	To		
138431	640	13300	17717		
Acid Volumes		Fracture Treatments			
30,000 GALS FE 15%		305,200 LBS 100 MESH, 4,921,380 LBS 40/70 MESH, 154,156 BBLS WATER			

Formation	Top
DES MOINES	12698

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: 6 TWP: 11N RGE: 22W County: BECKHAM  SW SE SW SW  176 FSL 862 FWL of 1/4 SEC  Depth of Deviation: 12644 Radius of Turn: 399 Direction: 181 Total Length: 4619  Measured Total Depth: 17890 True Vertical Depth: 13100 End Pt. Location From Release, Unit or Property Line: 176

FOR COMMISSION USE ONLY
<div>Status: Accepted</div> <div>1138227</div>

9/1/18  
Oklahoma Corporation Commission  
Oil & Gas Conservation Division  
Post Office Box 52000  
Oklahoma City, Oklahoma 73152-2000  
Rule 165: 10-3-25

Form 1002A

1016EZ

API No.: 0009219870000

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A: 222796 I

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

Total Depth: 17890

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

Initial Test Data
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August 24, 2018

1/10/18 404 DSMN 1064

2017: 38,196

1 of 2  
DR

E 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
Jan 10, 2018	DES MOINES	44	47	2545	57841	1666	FLOWING	1064	40/64	1447

**Completion and Test Data by Producing Formation**

Formation Name: DES MOINES

Code: 404DSMN

Class: GAS

**Spacing Orders**

Order No	Unit Size
138431	640

**Perforated Intervals**

From	To
13300	17717

**Acid Volumes**

30,000 GALS FE 15%
--------------------

**Fracture Treatments**

305,200 LBS 100 MESH, 4,921,380 LBS 40/70 MESH, 154,156 BBLS WATER
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Formation	Top
DES MOINES	12698

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: 6 TWP: 11N RGE: 22W County: BECKHAM

SW SE SW SW

176 FSL 862 FWL of 1/4 SEC

Depth of Deviation: 12644 Radius of Turn: 399 Direction: 181 Total Length: 4619

Measured Total Depth: 17890 True Vertical Depth: 13100 End Pt. Location From Release, Unit or Property Line: 176

**FOR COMMISSION USE ONLY**

1138227

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. 2018

JUL 03 2019

BACK PRESSURE TEST FOR NATURAL GAS WELLS

OAC 165:10-17-6

Oklahoma Corporation  
Commission

DATE OF TEST:

6/5/2019

DATE OF 1<sup>ST</sup> SALES:

11/14/2017

Operator FourPoint Energy LLC				Operator # 23429	
Address 100 ST Paul Street, Suite 400			City Denver	ST CO	ZIP 80206
E-mail tcopeland@fourpointenergy.com		Ph 303-290-0990	Fax	Well Name/# Ruth 6-11-22 1HA	
Gas Volumes to be Reported to OCC by:			Gas Volume Reporter # 23429	API # 35-009-21987	
Producing Zone Des Moines 404DSMN			OTC Lease # 009-222796		
Surface Location SW 1/4 NE 1/4 NW 1/4 NW 1/4		Sec 6	Twp 11N	Rge 22W	(OCC use) Allowable # 222796 I
Zone Location (if different) 1/4 1/4 1/4 1/4		Sec	Twp	Rge	County Beckham
Field				Spacing Size 640/SP#138431	

COMPLETION:

☒ Single

☐ Multiple Zone

☐ Commingled

☐ Recompletion

Date of Completion

10/22/17

Total Depth 17890	Plug Back Depth	Packer Set Depth 12959	Elevation 2152 GL
Csg Size 5 1/2	WT 20 d 4.78	Depth Set 17879	Perfs. 13300 - 17717
Tbg Size 2 7/8	WT 6.50 d 2.44	Depth Set 12959	Perfs.
Prod. Thru Tubing	Res. Temp. F 230 @ 13059	Mean Grd. Temp. F 60	Atm. Press. PSIA 14.4
L 15509 H 15509 G <sub>g</sub> .7286 %CO <sub>2</sub> .658 %N <sub>2</sub> .478 H <sub>2</sub> S(ppm)	Prover	Meter Run X	Taps Flange

SHUT-IN DATA		FLOW DATA						TUBING DATA		CASING DATA		BHP DATA		FLOW (HRS)
		PROVER			DIFF									
PRESS	(HRS)	LINE SIZE	X	ORIFICE SIZE	PRESS	(INCHES)	TEMP (F)	PRESS (PSIG)	TEMP (F)	PRESS (PSIG)	TEMP (F)	PRESS (PSIG)	TEMP (F)	
					(PSIG)	(ROOTS)								
1029	24	3.068		2	43	15	102	86	90					24 ✓

RATE OF FLOW CALCULATIONS

COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	PRESSURE P <sub>m</sub>	FLOW TEMP. FACTOR F <sub>t</sub>	GRAVITY FACTOR F <sub>g</sub>	SUPER COMPRESS FACTOR F <sub>pv</sub>	RATE OF FLOW (Q) MCFD
21.86	29.3428	57.4	.9619	1.1715	1.0052	727

P <sub>r</sub>	TEMP. R	T <sub>r</sub>	Z
.0861	561.7	1.4170	.9897

Gas/Liquid Hydrocarbon Ratio	66.05	MCF/BBL
API Gravity of Liquid Hydrocarbons	60	Deg.
Specific Gravity Separator Gas	.7286	
Specific Gravity Flowing Fluid	.7705	
Critical Pressure	666.64	PSIA
Critical Pressure	664.94	PSIA
Critical Temperature	396.38	R
Critical Temperature	409.22	R

P<sub>c</sub> 1043.4 (PSIA) P<sub>c</sub><sup>2</sup> 1088.68

P <sub>w</sub>	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>
100.4	10.08	1078.6

$$[1] \frac{P_c^2}{P_c^2 - P_w^2} = 1.0093 \quad (\text{Not to exceed } 5.263)$$

$$[2] \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0079 \quad \text{WHAOF=Q}$$

$$\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 732$$

Calculated wellhead open flow	732	MCFD @ 14.65	Angle of Slope	Slope, n	.850
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Remarks Oil Produced 11 BBLS Water Produced 394 BBLS

Approved by Commission: <i>DR</i>	Conducted by: John Digby	Calculated by: Thurmond McGlothlin	Checked by:
WITNESSED - OCC FIELD STAFF: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		NAME: <i>Min</i> (over)	DATE: 6/18/2019

EZ

*DR*