

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.: 35153236050000

Completion Report

Spud Date: July 24, 2017

OTC Prod. Unit No.: 153-222260

Drilling Finished Date: September 05, 2017

1st Prod Date: September 21, 2017

Completion Date: September 17, 2017

Drill Type: HORIZONTAL HOLE

Min Gas Allowable: Yes

Well Name: VIRGIL 35-21-19 1HC

Purchaser/Measurer: CHESAPEAKE OPERATING LLC

First Sales Date: 09/21/2017

Location: WOODWARD 35 21N 19W
SE SW SW SW
200 FSL 430 FWL of 1/4 SEC
Derrick Elevation: 1906 Ground Elevation: 1881

Operator: CHESAPEAKE OPERATING LLC 17441
PO BOX 18496
6100 N WESTERN AVE
OKLAHOMA CITY, OK 73154-0496

Completion Type		Location Exception		Increased Density	
X	Single Zone	Order No		Order No	
	Multiple Zone	670061		There are no Increased Density records to display.	
	Commingled	671016 COR			

Casing and Cement							
Type	Size	Weight	Grade	Feet	PSI	SAX	Top of CMT
SURFACE	13 3/8	54.5	J-55	1536		1655	SURFACE
INTERMEDIATE	9 5/8	40	P-110 & L-80HC	8061		500	5292
PRODUCTION	5 1/2	23	L-80 & T-95	13014		1185	6333

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

Total Depth: 13014

Packer		Plug	
Depth	Brand & Type	Depth	Plug Type
10010	AS-1X	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
Nov 07, 2017	MISSISSIPPIAN	17	36.3	604	35529	329	ARTIFICIA			85

Completion and Test Data by Producing Formation															
Formation Name: MISSISSIPPIAN		Code: 359MSSP	Class: GAS												
<table border="1" style="width:100%; border-collapse: collapse;"> <tr><th colspan="2">Spacing Orders</th></tr> <tr> <th>Order No</th> <th>Unit Size</th> </tr> <tr> <td>665487</td> <td>640</td> </tr> </table>		Spacing Orders		Order No	Unit Size	665487	640	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><th colspan="2">Perforated Intervals</th></tr> <tr> <th>From</th> <th>To</th> </tr> <tr> <td>10191</td> <td>12969</td> </tr> </table>		Perforated Intervals		From	To	10191	12969
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665487	640														
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2,000 GALLONS ACID															
Fracture Treatments															
84,720 BARRELS FLUIDS, 4,893,064 POUNDS PROPPANT															

Formation	Top
MISSISSIPPIAN	9960

Were open hole logs run? No

Date last log run:

Were unusual drilling circumstances encountered? No

Explanation:

Other Remarks
PILOT HOLE 8,080' - 11,333' CEMENTED WITH 1,360 SACKS BACK TO 9,180' WITH TIE-IN AT 9,068'

Lateral Holes
Sec: 35 TWP: 21N RGE: 19W County: WOODWARD SE NW SW NW 1897 FNL 511 FWL of 1/4 SEC Depth of Deviation: 9201 Radius of Turn: 627 Direction: 360 Total Length: 3054 Measured Total Depth: 13014 True Vertical Depth: 9828 End Pt. Location From Release, Unit or Property Line: 511

FOR COMMISSION USE ONLY	
Status: Accepted	1138222

API NO. 153-23605
OTC PROD.
UNIT NO. 153-22260

PLEASE TYPE OR USE BLACK INK ONLY

NOTE:

Attach copy of original 1002A if recompletion or reentry.

OKLAHOMA CORPORATION COMMISSION

Oil & Gas Conservation Division

Post Office Box 52000

Oklahoma City, Oklahoma 73152-2000

Rule 165:10-3-25

RECEIVED

Form 1002A

Rev. 12/09

NOV 21 2017

OKLAHOMA CORPORATION COMMISSION

☒ ORIGINAL
☐ AMENDED
Reason Amended

TYPE OF DRILLING OPERATION

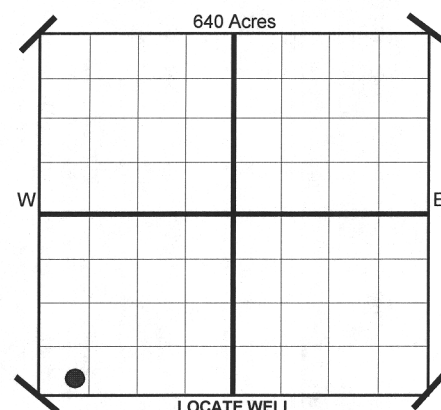
☐ STRAIGHT HOLE ☐ DIRECTIONAL HOLE ☒ HORIZONTAL HOLE
SERVICE WELL

If directional or horizontal, see reverse for bottom hole location.

COUNTY Woodward SEC 35 TWP 21N RGE 19W
LEASE NAME Virgil 35-21-19
SHL FSL FWL OF 200 1/4 SEC 430
ELEVATION SE 1/4 SW 1/4 SW 1/4 SW 1/4
Derrick Fl 1,906 Ground 1,881
OPERATOR NAME CHESAPEAKE OPERATING, L.L.C.
ADDRESS P.O. BOX 18496
CITY OKLAHOMA CITY STATE OK ZIP 73154

COMPLETION REPORT

SPUD DATE 7/24/2017
DRLG FINISHED DATE 9/5/2017
DATE OF WELL COMPLETION 9/17/2017
1ST PROD DATE 9/21/2017
RECOMP DATE
Longitude (if Known)



COMPLETION TYPE

☒ SINGLE ZONE
☐ MULTIPLE ZONE
Application Date
☐ COMMINGLED
Application Date
LOCATION EXCEPTION ORDER NO. 670061 FO/66602710
INCREASED DENSITY ORDER NO. N/A

CASING & CEMENT (Form 1002C must be attached)

TYPE	SIZE	WEIGHT	GRADE	FEET	PSI	SAX	TOP
CONDUCTOR							
SURFACE	13-3/8"	54.5#	J-55	1,536		1,655	Surface
INTERMEDIATE	9-5/8"	40#	P-110 L-80HC	8,061		500	5,292
PRODUCTION	5-1/2"	23#	L-80/T-95	13,014		1,185	6,333
LINER							

PACKER @ 10,010 BRAND & TYPE AS-1X
PACKER @ BRAND & TYPE

PLUG @ TYPE PLUG @ TYPE
PLUG @ TYPE PLUG @ TYPE

TOTAL DEPTH 13,014

COMPLETION & TEST DATA BY PRODUCING FORMATION

FORMATION	Mississippian	Multunit				
SPACING & SPACING ORDER NUMBER	640 665487 1665653	666026 670666 order Dismiss Cause				Reported to FracFocus
CLASS: Oil, Gas, Dry, Inj. Disp, Comm Disp, Svc	Gas					
PERFORATED INTERVALS	10,191 - 12,969					
ACID/VOLUME	2,000 gals acid 84,720 bbls fluids					
FRACTURE TREATMENT (Fluids/Prop Amounts)	4,893,064# proppant					

Minimum Gas Allowable

(165:10-17-7)

Gas Purchaser/Measurer

Chesapeake Operating, L.L.C.

☒

OR

1st Sales Date

9/21/2017

INITIAL TEST DATA

Oil Allowable

(165:10-13-3)

INITIAL TEST DATE	11/7/2017				
OIL-BBL/DAY	17				
OIL-GRAVITY (API)	36.3				
GAS-MCF/DAY	604				
GAS-OIL RATIO CU FT/BBL	35,529				
WATER-BBL/DAY	329				
PUMPING OR FLOWING	Artificial Lift				
INITIAL SHUT-IN PRESSURE					
CHOKE SIZE					
FLOW TUBING PRESSURE	85				

AS SUBMITTED

A record of the formations drilled through, and pertinent remarks are presented on the reverse. 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.

Juanita Cooper
SIGNATURE JUANITA COOPER - SR. REGULATORY ANALYST 11/20/2017 405-848-8000
P.O. BOX 18496 OKLAHOMA CITY OK 73154
ADDRESS CITY STATE ZIP EMAIL ADDRESS juanita.cooper@chk.com

PLEASE TYPE OR USE BLACK INK ONLY
FORMATION RECORD

Give formation names and tops, if available, or descriptions and thickness of formations drilled through. Show intervals cored or drillstem tested.

LEASE NAME Virgil 35-21-19

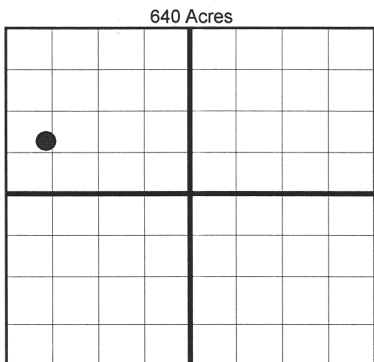
WELL NO. 1HC

NAMES OF FORMATIONS	TOP
Mississippian	9,960

FOR COMMISSION USE ONLY	
ITD on file <input type="checkbox"/> YES <input type="checkbox"/> NO	
APPROVED _____	DISAPPROVED _____
2) Reject Codes	

Were open hole logs run?	yes	<input checked="" type="checkbox"/> no
Date Last log was run	N/A	
Was CO ₂ encountered?	yes	<input checked="" type="checkbox"/> no at what depths?
Was H ₂ S encountered?	yes	<input checked="" type="checkbox"/> no at what depths?
Were unusual drilling circumstances encountered?	yes <input type="checkbox"/> no <input checked="" type="checkbox"/>	
If yes, briefly explain.		

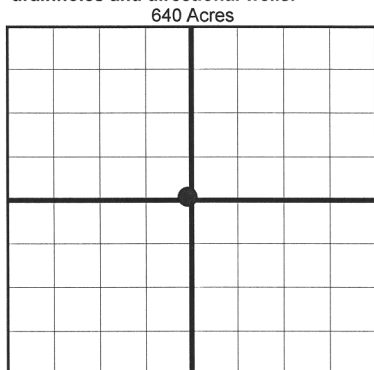
Other remarks: Pilot hole 8,080 - 11,333 cemented with 1,360 sacks back to 9,180 with tie-in at 9,068



If more than three drainholes are proposed, attach a separate sheet indicating the necessary information.

Direction must be stated in degrees azimuth. Please note, the horizontal drainhole and its end point must be located within the boundaries of the lease or spacing unit.

Directional surveys are required for all drainholes and directional wells.



BOTTOM HOLE LOCATION FOR DIRECTIONAL HOLE

SEC	TWP	RGE	COUNTY
Spot Location	1/4	1/4	1/4
Measured Total Depth	True Vertical Depth		BHL From Lease, Unit, or Property Line:

BOTTOM HOLE LOCATION FOR HORIZONTAL HOLE: (LATERALS)

SEC	TWP	RGE	COUNTY
35	21N	19W	Woodward
Spot Location	SE 1/4	NW 1/4	SW 1/4
Depth of Deviation	9,201	Radius of Turn	627
Measured Total Depth	13,014	True Vertical Depth	9,828
Feet From 1/4 Sec Lines		FSL	1,897
Direction		360	Total Length
BHL From Lease, Unit, or Property Line:		511	

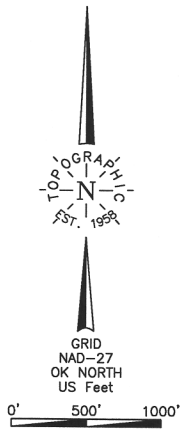
LATERAL #2

SEC	TWP	RGE	COUNTY
Spot Location	1/4	1/4	1/4
Depth of Deviation	Radius of Turn		Direction
Measured Total Depth	True Vertical Depth		BHL From Lease, Unit, or Property Line:

LATERAL #3

SEC	TWP	RGE	COUNTY
Spot Location	1/4	1/4	1/4
Depth of Deviation	Radius of Turn		Direction
Measured Total Depth	True Vertical Depth		BHL From Lease, Unit, or Property Line:

WOODWARD County, Oklahoma
200' FSL - 430' FWL Section 35 Township 21N Range 19W I.M.



Best Accessibility to Location _____ From South off county road
Distance & Direction _____
From Hwy Jct or town _____ From Mutual, OK, go ± 1.0 mi. North, then ± 2.5 mi. West to the
SW Cor. of Sec. 35-T21N-R19W

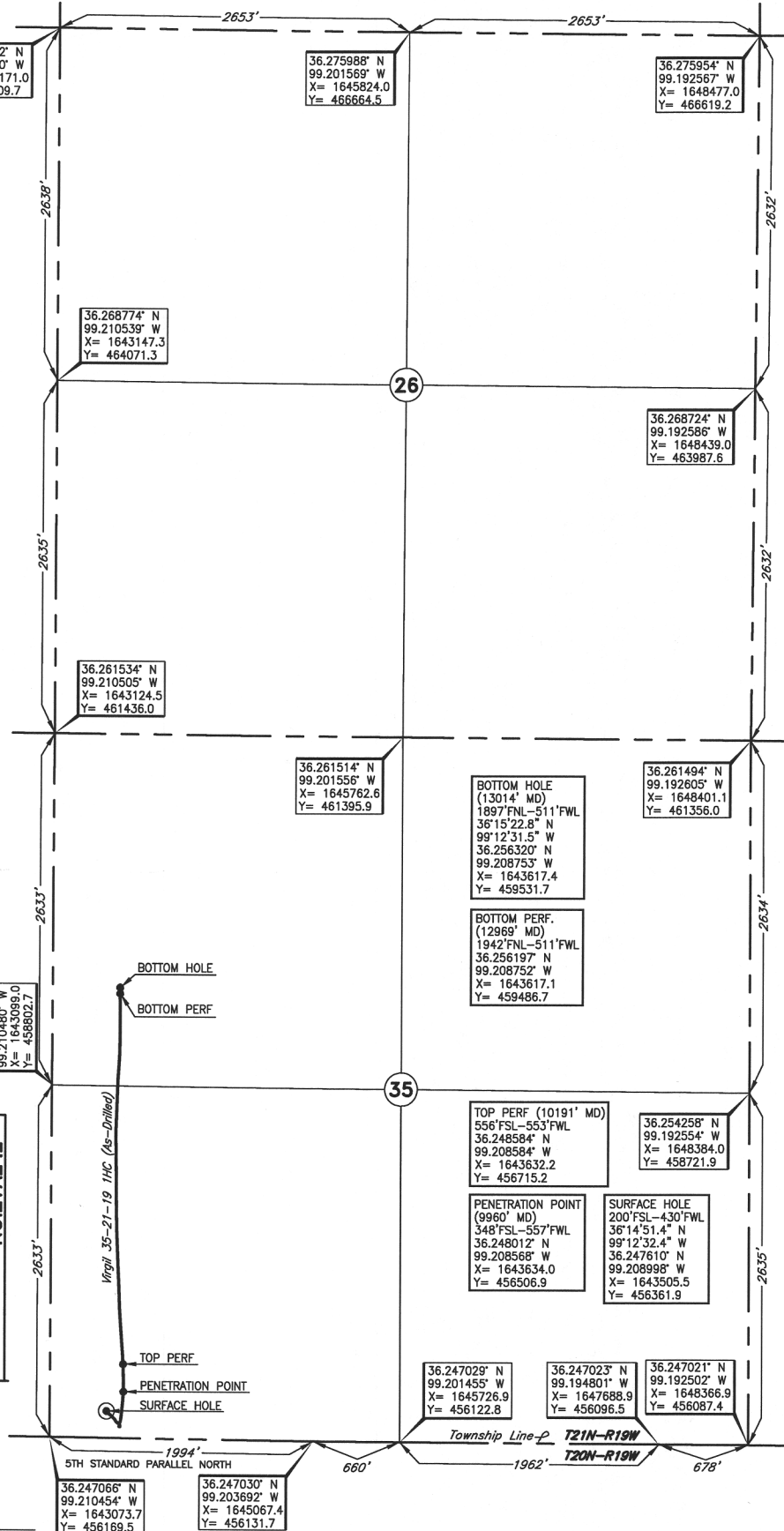
Good Drill Site? _____ Yes _____ No

Reference Stakes or Alternate Location
Stakes Set _____ None _____

Operator: CHESAPEAKE OPERATING, L.L.C.
Lease Name: WRCIL 35-21-19
Topography & Vegetation Loc. fell on level pad

Well No.: 1HC

ELEVATION:
1881' Gr. at Level Pad



DATUM: NAD-27
LAT: 36°14'51.4" N
LONG: 99°12'32.4" W
LAT: 36.247610° N
LONG: 99.208998° W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1643505.5
Y: 456361.9

281822 Date of Drawing: Sep. 26, 2017
Invoice # 269871 Date Staked: Apr. 05, 2017 JP

FINAL AS-DRILLED PLAT

AS-DRILLED INFORMATION
FURNISHED BY CHESAPEAKE OPERATING