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

Rule 165: 10-3-25

OTC Prod. Unit No.: 011-222296 Drilling Finished Date: June 29, 2017

1st Prod Date: September 10, 2017

Completion Date: September 09, 2017

Drill Type: HORIZONTAL HOLE

Well Name: DUNN 1R-15H Purchaser/Measurer: ENLINK OKLA GAS

Location: BLAINE 22 16N 13W

NW NW NE

325 FNL 2359 FEL of 1/4 SEC

Derrick Elevation: 1805 Ground Elevation: 1783

Operator: HIGHMARK ENERGY OPERATING LLC 23831

909 LAKE CAROLYN PKWY STE 1500

IRVING, TX 75039-3912

Completion Type								
Χ	Single Zone							
Multiple Zone								
Commingled								

Location Exception	
Order No	
660779	

Increased Density
Order No
There are no Increased Density records to display.

First Sales Date: 09/10/2017

Casing and Cement									
Туре	Size	Weight	Grade	Feet	PSI	SAX	Top of CMT		
CONDUCTOR	30	310	X-54	40					
SURFACE	20	94	J-55	286		630	SURFACE		
INTERMEDIATE	13 3/8	54.5	J-55	1496		950	620		
INTERMEDIATE	9 5/8	40	P-110	9486		1025	4505		
PRODUCTION	5 1/2	23	P-110	16430		1785	7093		

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

Total Depth: 16450

Packer						
Depth	Brand & Type					
10964	AS-1X					

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

Initial Test Data

January 08, 2018 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
Nov 10, 2017	MISSISSIPPIAN	166	60	2989	18006	1278	FLOWING		29/64	1969

#### **Completion and Test Data by Producing Formation**

Formation Name: MISSISSIPPIAN

Code: 359MSSP

Class: GAS

Spacing Orders							
Order No	Unit Size						
660363	640						

Perforated Intervals						
From To						
11430	16331					

**Acid Volumes** 

30,500 GALLONS 15% FE

Fracture Treatments
296,910 BARRELS FLUID, 13,152,300 POUNDS
PROPPANT

Formation	Тор
MISSISSIPPIAN	11113

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

Were unusual drilling circumstances encountered? No Explanation:

#### Other Remarks

OCC - THIS DOCUMENT IS ACCEPTED BASED ON THE DATA SUBMITTED THE FINAL LOCATION EXCEPTION HAS NOT BEEN SUBMITTED.

#### **Lateral Holes**

Sec: 15 TWP: 16N RGE: 13W County: BLAINE

NW NW NW NE

61 FNL 2428 FEL of 1/4 SEC

Depth of Deviation: 10698 Radius of Turn: 437 Direction: 359 Total Length: 5022

Measured Total Depth: 16450 True Vertical Depth: 11031 End Pt. Location From Release, Unit or Property Line: 61

#### FOR COMMISSION USE ONLY

1138269

Status: Accepted

January 08, 2018 2 of 2

DING MINING

API 011 23806	011 23806 I							Form 10		
OTC PROD. 011 222296	Attach copy of or	OTE:	O		ORPORATION CONTRACTION CONTRAC	ON COMMISSION on Division	NO	o a m	0047	Rev. 2
UNIT NO. 011 222296		ion or reentry.			t Office Box	52000 a 73152-2000	NU	V 27	2017	
XORIGINAL		,			Rule 165:10-		OKLAHOMA CORPORATION			
AMENDED (Reason)			_	COMPLETION REPORT				COMMISSION		
TYPE OF DRILLING OPERAT	_	X HORIZONTAL HOLE	SPUD	DATE C	5/22/201	7		640 Acres	<del> </del>	1
SERVICE WELL			DRLG	FINISHED	06/29/20	17		Х		
If directional or horizontal, see COUNTY BLAINE		on. TWP 16N RGE 13W	DATE DATE	OF WELL						
LEACE	020 22	WELL 1R-1	COMP	LLTION	09/09/20					
NAME DOININ	ENIOE			ROD DATE	09/10/20	)17 N	,			E
NW 1/4 NW 1/4 NV	V 1/4 NE 1/4 FNU OF	325' FEL DF 235		OMP DATE						1
Derrick FL 1805 Grou		(if known) 35° 51′ 17.73		ongitude if known) 98	° 34' 8.66	66W				
OPERATOR HIGHMARK	<b>ENERGY OPERATIN</b>	NG, LLC	OTC/OCC OPERATOR	R NO. 238	331 0					-
	CAROLYN PKWY STI		***************************************							
CITY IRVING		STATE T	X	ZIP	75039-39	12				
COMPLETION TYPE		CASING & CEMEN	IT (Form 10				ı	OCATE WE	:LL	
X SINGLE ZONE		TYPE	SIZE	WEIGHT	GRADE	FEET	PSI	SAX	TOP OF CMT	]
MULTIPLE ZONE Application Date		CONDUCTOR	30"	310#	X54	40'				1
COMMINGLED Application Date		WATER STAINS	20"	94#	J-55	286'		630	SURFACE	
	0779 1.0.	our Fermedia	13-3/8"	54.5#	J-55	1,496'		950	620'	
INCREASED DENSITY ORDER NO		INTERMEDIATE	9-5/8"	40#	P-110	9,486'		1025	4505'	1
ICHINI ICIO		PRODUCTION	5-1/2"	23#	P-110	16,430'		1785	7093'	
PACKER @ 10964' BRA	ND & TYPE AS-1X	PLUG @	TYPE		PLUG®	TYPE		TOTAL DEPTH	16,450'	1
PACKER @ BRA		PLUG @				TYPE		DEPIR		1
COMPLETION & TEST DAT	TA BY PRODUCING FORM	NATION 359M	SSP				_			,
FORMATION SPACING & SPACING	MISSISSIPPIAN							N	nonitor	
ORDER NUMBER CLASS: Oil, Gas, Dry, Inj,	660363 (6	40)						R	eport to Fa	ac Focus
Disp, Comm Disp, Svc	GAS								/	] -
DEDECRATER	11,430' - 16,331'									
PERFORATED INTERVALS										]
				OMESSA SA						
ACID/VOLUME	30,500 GALS 15% F	E								
EDA OTUDE TREATMENT	296,910 BBLS FLUI	D								
FRACTURE TREATMENT (Fluids/Prop Amounts)	13,152,300 LBS PR	OPPANT								
		•	10-17-7)			urchaser/Measurer	-	ENLINK O		_
INITIAL TEST DATA	Oil Allow	OR /able (165:10-13-3)			First S	Sales Date	-	09/10	)/2017	-
INITIAL TEST DATE	11/10/2017	(123110 13-0)								1
OIL-BBL/DAY	166									1
OIL-GRAVITY ( API)	60			1////				///		1
GAS-MCF/DAY	2,989									1
					55	UBM				-
	12,006				<b>5 0</b>	UNII		1	nomina e e e e e e e e e e e e e e e e e e e	-
WATER-BBL/DAY	1,278						,,,,,,,,,,	///-		1
PUMPING OR FLOWING	FLOWING			'/////	/////	<u> </u>		///_		1
INITIAL SHUT-IN PRESSURE										
CHOKE SIZE	29/64									
FLOW TUBING PRESSURE	1,969									

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 my 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. LEANNA CANNON

STATE

**IRVING** 

CITY

NAME (PRINT OR TYPE)

ZIP

SIGNATURE

909 LAKE CAROLYN PARKWAY, STE. 1500.

ADDRESS

11/15/2017

CANNON@HIGHMARK-ENERGY.COM EMAIL ADDRESS

DATE

972-685-0591

PHONE NUMBER

#### PLEASE TYPE OR USE BLACK INK ONLY

drilled through. Show intervals cored or drillstem			EOD 001##0010111	CE ONI V
NAMES OF FORMATIONS	ТОР		FOR COMMISSION U	SE UNLY
		ITD on file YES	NO	
MISSISSIPPIAN	11,113'	APPROVED DISAPPR		
			2) Reject Codes	
			Management of the control of the con	
		Were open hole logs run?	yes X_no	
		Date Last log was run	N/A	
		Was CO <sub>2</sub> encountered?	yes X no at wha	at depths?
		Was H <sub>2</sub> S encountered?		at depths?
		1 -		
		Were unusual drilling circumstand If yes, briefly explain below	ces encountered?	yes X_no
ther remarks:				
	·			
640 Acres	BOTTOM HOLE LOCATION FO	R DIRECTIONAL HOLE		
640 Acres				
	SEC TWP R	R DIRECTIONAL HOLE GE COUNTY		
	SEC TWP R	GE COUNTY	From 1/4 Sec Lines FSL	FWL
	SEC TWP R	GE COUNTY  4 1/4 1/4 Feet F	From 1/4 Sec Lines FSL	
	SEC TWP R Spot Location 1/4 1	COUNTY 1/4 Feet F		
	SEC TWP R Spot Location 1/4 1 Measured Total Depth	GE COUNTY  4 1/4 1/4 Feet F True Vertical Depth BHL F		
	SEC TWP R Spot Location 1/4 1 Measured Total Depth	COUNTY 1/4 Feet F		
	SEC TWP R Spot Location 1/4 1 Measured Total Depth  BOTTOM HOLE LOCATION FO	GE COUNTY  4 1/4 1/4 Feet F  True Vertical Depth BHL F  R HORIZONTAL HOLE: (LATERALS)		
	SEC TWP R Spot Location 1/4 1 Measured Total Depth  BOTTOM HOLE LOCATION FO LATERAL #1 SEC TWP R	GE COUNTY  4 1/4 1/4 Feet F True Vertical Depth BHL F R HORIZONTAL HOLE: (LATERALS)  GE COUNTY	From Lease, Unit, or Property Line	
	SEC TWP R Spot Location 1/4 1 Measured Total Depth  BOTTOM HOLE LOCATION FO  LATERAL #1 SEC TWP 16N 15 16N Soot Location	True Vertical Depth BHL F  R HORIZONTAL HOLE: (LATERALS)  GE 13W BLA	From Lease, Unit, or Property Line	;
	SEC TWP R Spot Location 1/4 1 Measured Total Depth  BOTTOM HOLE LOCATION FO  LATERAL #1 SEC TWP 16N Spot Location NW 1/4 NW 1	True Vertical Depth BHL F  R HORIZONTAL HOLE: (LATERALS)  GE 13W BLA  R NW 1/4 NE 1/4 Feet F  Radius of Turn Direct	INE From 1/4 Sec Lines FNL Total	61' FEL 2,42
more than three drainholes are proposed, attach a	SEC TWP R Spot Location 1/4 1 Measured Total Depth  BOTTOM HOLE LOCATION FO  LATERAL #1 SEC TWP 16N Spot Location NW 1/4 NW 1 Depth of Deviation 10,698'	True Vertical Depth BHL F  R HORIZONTAL HOLE: (LATERALS)  GE 13W BLA  NW 1/4 NE 1/4 Feet F  Radius of Turn 437' Direct	INE From 1/4 Sec Lines FNL Lion 359° FNL Lengtl	61' FEL 2,42
more than three drainholes are proposed, attach a	SEC TWP R Spot Location 1/4 1 Measured Total Depth  BOTTOM HOLE LOCATION FO  LATERAL #1 SEC TWP 16N S 55 16N Spot Location NW 1/4 NW 1 Depth of Deviation 10,698' Measured Total Depth	True Vertical Depth  COUNTY  H 1/4 1/4 Feet F  R HORIZONTAL HOLE: (LATERALS)  COUNTY  BHL F  COUNTY  BLA  NW 1/4 NE 1/4  Radius of Turn 437'  True Vertical Depth  BHL F  Feet F  BHL F	From Lease, Unit, or Property Line  INE  From 1/4 Sec Lines  FNL  tion  359°  Total Lengtl From Lease, Unit, or Property Line	61' FEL 2,42
more than three drainholes are proposed, attach a eparate sheet indicating the necessary information.	SEC TWP R Spot Location 1/4 1 Measured Total Depth  BOTTOM HOLE LOCATION FO  LATERAL #1 SEC TWP 16N Spot Location NW 1/4 NW 1 Depth of Deviation 10,698'	True Vertical Depth BHL F  R HORIZONTAL HOLE: (LATERALS)  GE 13W BLA  NW 1/4 NE 1/4 Feet F  Radius of Turn 437' Direct	INE From 1/4 Sec Lines FNL Lion 359° FNL Lengtl	61' FEL 2,42
more than three drainholes are proposed, attach a apparate sheet indicating the necessary information. irection must be stated in degrees azimuth, lease note, the horizontal drainhole and its end	SEC TWP R Spot Location 1/4 1 Measured Total Depth  BOTTOM HOLE LOCATION FO  LATERAL #1 SEC TWP 16N Spot Location NW 1/4 NW 1 Depth of Deviation 10,698' Measured Total Depth 16,450'	True Vertical Depth  COUNTY  H 1/4 1/4 Feet F  R HORIZONTAL HOLE: (LATERALS)  COUNTY  BHL F  COUNTY  BLA  NW 1/4 NE 1/4  Radius of Turn 437'  True Vertical Depth  BHL F  Feet F  BHL F	From Lease, Unit, or Property Line  INE  From 1/4 Sec Lines  FNL  tion  359°  Total Lengtl From Lease, Unit, or Property Line	61' FEL 2,42
more than three drainholes are proposed, attach a sparate sheet indicating the necessary information. irrection must be stated in degrees azimuth, ease note, the horizontal drainhole and its end bint must be located within the boundaries of the	SEC TWP R Spot Location 1/4 1 Measured Total Depth  BOTTOM HOLE LOCATION FO  LATERAL #1 SEC TWP 15 16N Spot Location NW 1/4 NW 1 Depth of Deviation 10,698' Measured Total Depth 16,450'  LATERAL #2	True Vertical Depth  COUNTY  H 1/4 1/4 Feet F  R HORIZONTAL HOLE: (LATERALS)  COUNTY  BHL F  COUNTY  BLA  NW 1/4 NE 1/4  Radius of Turn 437'  True Vertical Depth  BHL F  Feet F  BHL F	From Lease, Unit, or Property Line  INE  From 1/4 Sec Lines  FNL  tion  359°  Total Lengtl From Lease, Unit, or Property Line	61' FEL 2,42
more than three drainholes are proposed, attach a parate sheet indicating the necessary information. rection must be stated in degrees azimuth, ease note, the horizontal drainhole and its end int must be located within the boundaries of the ase or spacing unit.	SEC TWP R Spot Location 1/4 1 Measured Total Depth  BOTTOM HOLE LOCATION FO  LATERAL #1 SEC TWP 16N Spot Location NW 1/4 NW 1 Depth of Deviation 10,698' Measured Total Depth 16,450'  LATERAL #2 SEC TWP R	True Vertical Depth  BLA  R HORIZONTAL HOLE: (LATERALS)  BLA  NW 1/4 NE 1/4  Radius of Turn 437'  True Vertical Depth BHL F  COUNTY  BLA  Radius of Turn 437'  True Vertical Depth BHL F	INE From 1/4 Sec Lines Find 359° From Lease, Unit, or Property Line 61'	61' FEL 2,42
more than three drainholes are proposed, attach a parate sheet indicating the necessary information. rection must be stated in degrees azimuth, ease note, the horizontal drainhole and its end int must be located within the boundaries of the ase or spacing unit.	SEC TWP R Spot Location 1/4 1 Measured Total Depth  BOTTOM HOLE LOCATION FO  LATERAL #1 SEC TWP 15 16N Spot Location NW 1/4 NW 1 Depth of Deviation 10,698' Measured Total Depth 16,450'  LATERAL #2 SEC TWP R Spot Location 1/4 1	True Vertical Depth    A	INE From Lease, Unit, or Property Line  From 1/4 Sec Lines FNL From Lease, Unit, or Property Line  61'  From 1/4 Sec Lines FSL	61' FEL 2,42
more than three drainholes are proposed, attach a sparate sheet indicating the necessary information. Irrection must be stated in degrees azimuth, ease note, the horizontal drainhole and its end bint must be located within the boundaries of the ase or spacing unit.	SEC TWP R Spot Location 1/4 1 Measured Total Depth  BOTTOM HOLE LOCATION FO  LATERAL #1 SEC TWP 15 16N Spot Location NW 1/4 NW 1 Depth of Deviation 10,698' Measured Total Depth 16,450'  LATERAL #2 SEC TWP R Spot Location 1/4 1 Depth of Depth of Depth 1/4 1	True Vertical Depth    A	INE From Lease, Unit, or Property Line  From 1/4 Sec Lines FNL From Lease, Unit, or Property Line  61'  From 1/4 Sec Lines FSL	61' FEL 2,42
more than three drainholes are proposed, attach a sparate sheet indicating the necessary information. Irrection must be stated in degrees azimuth, ease note, the horizontal drainhole and its end point must be located within the boundaries of the ase or spacing unit.	SEC TWP R Spot Location 1/4 1 Measured Total Depth  BOTTOM HOLE LOCATION FO  LATERAL #1 SEC TWP 15 16N Spot Location NW 1/4 NW 1 Depth of Deviation 10,698' Measured Total Depth 16,450'  LATERAL #2 SEC TWP R Spot Location 1/4 1	True Vertical Depth  BLA  A NW 1/4 NE 1/4  Radius of Turn 437'  True Vertical Depth BHL F  COUNTY  BLA  Radius of Turn 437'  BHL F  COUNTY  BLA  Radius of Turn 437'  True Vertical Depth BHL F  COUNTY  Radius of Turn 437'  True Vertical Depth BHL F  COUNTY  Radius of Turn BHL F  COUNTY	INE From 1/4 Sec Lines Form Lease, Unit, or Property Line From 1/4 Sec Lines Form Lease, Unit, or Property Line 61' From 1/4 Sec Lines FSL fion Total Lengtl From 1/4 Sec Lines FSL fion Total	61' FEL 2,42
more than three drainholes are proposed, attach a sparate sheet indicating the necessary information. Irrection must be stated in degrees azimuth, ease note, the horizontal drainhole and its end point must be located within the boundaries of the ase or spacing unit.	SEC TWP R Spot Location 1/4 1 Measured Total Depth  BOTTOM HOLE LOCATION FO  LATERAL #1 SEC TWP 16N Spot Location NW 1/4 NW 1 Depth of Deviation 10,698' Measured Total Depth 16,450'  LATERAL #2 SEC TWP R Spot Location 1/4 1 Depth of Deviation 1/4 1 Depth of Deviation 1/4 1 Depth of Deviation 1/4 1	True Vertical Depth  BLA  A NW 1/4 NE 1/4  Radius of Turn 437'  True Vertical Depth BHL F  COUNTY  BLA  Radius of Turn 437'  True Vertical Depth BHL F  COUNTY  Radius of Turn 437'  True Vertical Depth BHL F  COUNTY  Radius of Turn 41/4  Radius of Turn 41/4  Radius of Turn 50 Direct	INE From 1/4 Sec Lines Form Lease, Unit, or Property Line From 1/4 Sec Lines Form Lease, Unit, or Property Line 61' From 1/4 Sec Lines FSL Total Lengtl From Lease, Unit, or Property Line 61' From 1/4 Sec Lines FSL Lengtl	61' FEL 2,42
more than three drainholes are proposed, attach a parate sheet indicating the necessary information. rection must be stated in degrees azimuth, ease note, the horizontal drainhole and its end int must be located within the boundaries of the ase or spacing unit.	SEC TWP R Spot Location 1/4 1 Measured Total Depth  BOTTOM HOLE LOCATION FO  LATERAL #1 SEC TWP 16N Spot Location NW 1/4 NW 1 Depth of Deviation 10,698' Measured Total Depth 16,450'  LATERAL #2 SEC TWP R Spot Location 1/4 1 Depth of Deviation 1/4 1 Depth of Deviation Measured Total Depth	True Vertical Depth  BLA  A NW 1/4 NE 1/4  Radius of Turn 437'  True Vertical Depth BHL F  COUNTY  BLA  Radius of Turn 437'  True Vertical Depth BHL F  COUNTY  Radius of Turn 437'  True Vertical Depth BHL F  COUNTY  Radius of Turn 41/4  Radius of Turn 41/4  Radius of Turn 50 Direct	INE From 1/4 Sec Lines Form Lease, Unit, or Property Line From 1/4 Sec Lines Form Lease, Unit, or Property Line 61' From 1/4 Sec Lines FSL Total Lengtl From Lease, Unit, or Property Line 61' From 1/4 Sec Lines FSL Lengtl	61' FEL 2,42
more than three drainholes are proposed, attach a parate sheet indicating the necessary information. rection must be stated in degrees azimuth, ease note, the horizontal drainhole and its end int must be located within the boundaries of the ase or spacing unit.  iirectional surveys are required for all rainholes and directional wells.	SEC TWP R Spot Location 1/4 1 Measured Total Depth  BOTTOM HOLE LOCATION FO  LATERAL #1 SEC TWP 15 16N Spot Location NW 1/4 NW 1 Depth of Deviation 10,698' Measured Total Depth 16,450'  LATERAL #2 SEC TWP R Spot Location 1/4 1 Depth of Deviation 1/4 1 Depth of Deviation 1/4 1 Depth of Deviation Measured Total Depth	True Vertical Depth    A	INE From 1/4 Sec Lines Form Lease, Unit, or Property Line From 1/4 Sec Lines Form Lease, Unit, or Property Line 61' From 1/4 Sec Lines FSL Total Lengtl From Lease, Unit, or Property Line 61' From 1/4 Sec Lines FSL Lengtl	61' FEL 2,42
more than three drainholes are proposed, attach a parate sheet indicating the necessary information. rection must be stated in degrees azimuth, ease note, the horizontal drainhole and its end int must be located within the boundaries of the ase or spacing unit.	SEC TWP R Spot Location 1/4 1 Measured Total Depth  BOTTOM HOLE LOCATION FO  LATERAL #1 SEC TWP 16N Spot Location NW 1/4 NW 1 Depth of Deviation 10,698' Measured Total Depth 16,450'  LATERAL #2 SEC TWP R Spot Location 1/4 1 Depth of Deviation Measured Total Depth	True Vertical Depth  BLA  A NW 1/4 NE 1/4  Radius of Turn 437'  True Vertical Depth BHL F  COUNTY  BLA  Radius of Turn 437'  True Vertical Depth BHL F  COUNTY  Radius of Turn 437'  True Vertical Depth BHL F  COUNTY  Radius of Turn 41/4  Radius of Turn 41/4  Radius of Turn 50 Direct	INE From 1/4 Sec Lines Form Lease, Unit, or Property Line From 1/4 Sec Lines Form Lease, Unit, or Property Line 61' From 1/4 Sec Lines FSL Total Lengtl From Lease, Unit, or Property Line 61' From 1/4 Sec Lines FSL Lengtl	61' FEL 2,42
more than three drainholes are proposed, attach a sparate sheet indicating the necessary information. Irrection must be stated in degrees azimuth, ease note, the horizontal drainhole and its end point must be located within the boundaries of the ase or spacing unit.	SEC TWP R Spot Location 1/4 1 Measured Total Depth  BOTTOM HOLE LOCATION FO  LATERAL #1 SEC TWP 16N Spot Location NW 1/4 NW 1 Depth of Deviation 10,698' Measured Total Depth 16,450'  LATERAL #2 SEC TWP R Spot Location 1/4 1 Depth of Deviation Measured Total Depth 16,450'  LATERAL #2 SEC TWP R Spot Location 1/4 1 Spot Location Measured Total Depth	True Vertical Depth  BLA  R HORIZONTAL HOLE: (LATERALS)  BLA  NW 1/4 NE 1/4 Feet F  Radius of Turn 437'  True Vertical Depth BHL F  COUNTY  Radius of Turn 437'  True Vertical Depth BHL F  Radius of Turn Direct  True Vertical Depth BHL F	INE From 1/4 Sec Lines Form Lease, Unit, or Property Line From 1/4 Sec Lines Form Lease, Unit, or Property Line 61' From 1/4 Sec Lines FSL Total Lengtl From Lease, Unit, or Property Line 61' From 1/4 Sec Lines FSL Lengtl	61' FEL 2,42
more than three drainholes are proposed, attach a eparate sheet indicating the necessary information. iirection must be stated in degrees azimuth, lease note, the horizontal drainhole and its end oint must be located within the boundaries of the lase or spacing unit.  Directional surveys are required for all trainholes and directional wells.	SEC TWP R Spot Location 1/4 1 Measured Total Depth  BOTTOM HOLE LOCATION FO  LATERAL #1 SEC TWP 16N Spot Location NW 1/4 NW 1 Depth of Deviation 10,698' Measured Total Depth 16,450'  LATERAL #2 SEC TWP R Spot Location 1/4 1 Depth of Deviation Measured Total Depth	True Vertical Depth  BLA  R HORIZONTAL HOLE: (LATERALS)  BLA  NW 1/4 NE 1/4 Feet F  Radius of Turn 437'  True Vertical Depth BHL F  COUNTY  Radius of Turn 437'  True Vertical Depth BHL F  Radius of Turn Direct  True Vertical Depth BHL F	INE From Lease, Unit, or Property Line  From 1/4 Sec Lines FNL From Lease, Unit, or Property Line  61'  From 1/4 Sec Lines FSL From Lease, Unit, or Property Line From 1/4 Sec Lines FSL	61' FEL 2,42 1 5,022' FWL

### HIGHMARK Well Location Plat - As-Drilled

S.H.L. Sec. 22-16N-13W I.M. B.H.L. Sec. 15-16N-13W I.M.

Operator: HIGHMARK ENERGY Lease Name and No.: DUNN 1R-15H

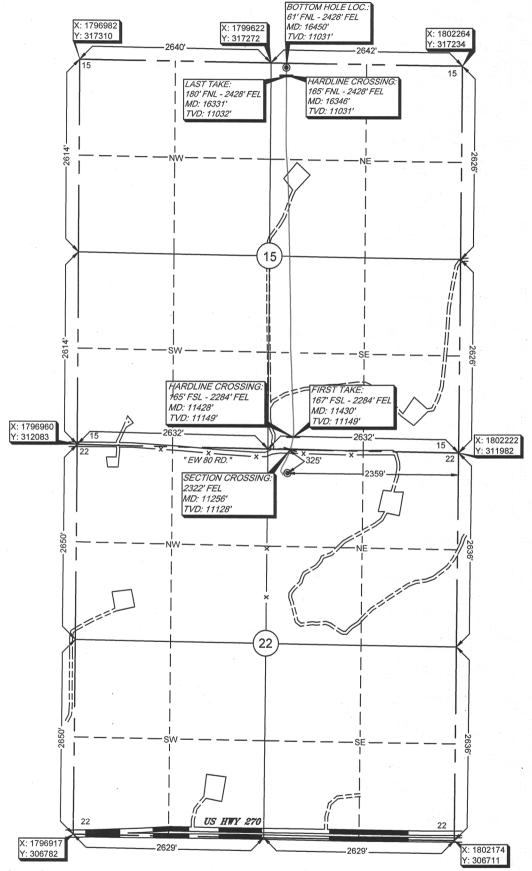
Footage: 325' FNL - 2359' FEL PAD ELEVATION: N/A Good Site? YES

Section: 22 Township: 16N Range:

County: Blaine State of Oklahoma

Alternate Loc.: N/A

Terrain at Loc. : Location fell in a wheat field, South & East of a fence.





1"=1320"

**GPS DATUM** NAD - 83 OK NORTH ZONE

Surface Hole Loc.: Lat: 35°51'17.74"N Lon: 98°34'08.67"W X: 1799861 Y: 311702

Section Crossing: Lat: 35°51'20.95"N Lon: 98°34'08.21"W X: 1799900 Y: 312027

Hardline Crossing: Lat: 35°51'22.58"N Lon: 98°34'07.74"W X: 1799940 Y: 312191

First Take: Lat: 35°51'22.60"N Lon: 98°34'07.74"W X: 1799940 Y: 312193

Last Take: Lat: 35°52'11.01"N Lon: 98°34'09.37"W X: 1799835 Y: 317089

Hardline Crossing: Lat: 35°52'11.16"N Lon: 98°34'09.37"W X: 1799835 Y: 317104

Bottom Hole Loc .: Lat: 35°52'12.18"N Lon: 98°34'09.38"W X: 1799835 Y: 317208

Quarter Section distances may be assumed from a Government Survey Plat or assumed at a proportionate distance from opposing section corners, or occupation thereof, and may not have been measured on-the-ground, and further, does not represent a true boundary survey.

NOTE: X and Y data shown hereon for Section Corners may NOT have been surveyed on-the-ground, and further, does NOT represent a true Boundary Survey.

Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed Please contact Arkoma Surveying and Mapping promptly if any inconsistency is determined.

10/30/17

GPS data is observed from RTK - GPS

survey and plat by,

Arkoma Surveying and Mapping, PLLC P.O. Box 238 Wilburton, OK 74578 Ph. 918-465-5711 Fax 918-465-5030 Certificate of Authorization No. 5348 Expires June 30, 2018

Invoice #7009-A-AD

Date Staked: 04/12/17 By: Date Drawn: 04/17/17 By: Move SHL 11' East: 05/23/17 Added As-Drilled: 10/30/17 By: J.W. By : P.B. By:R.S. By: R.S.

#### Certification:

This is to certify that this Well Location Plat represents the results of a survey made on the ground performed under the supervision of the undersigned.

LANCE G. MATHIS

TROPESSIONAL SPORTSSIONAL LAB SURVEYOR LANCE G. **MATHIS** 1664 AHOMA OK LPLS 1664

PLEASE TYPE OR USE BLACK INK ONLY

## RECEIVED

Form 1002A Rev. 2009

1016EZ

API 011 00000	PLEASE TYPE OR U	SE BLACK INK ONLY					111-		
NO. 011 23806		OTE:	O		Conservation	ON COMMISSION	11.11	1282	2018
OTC PROD. 011 222296	Attach copy of or	ion or reentry.		Post	Office Box	52000			
ORIGINAL	ii recomplet		1101		ty, Oklahoma Rule 165:10-	a 73152-2000 3-25	Oklahor	na Con	poration ion
X AMENDED (Reason)	Correct Initial Te	est Data H: 22	1116	I COMP	LETION R	EPORT	C	mmiss	ion.
TYPE OF DRILLING OPERATI		V was zawa wa sa	SPUE	DATE 0	5/22/201	7 -		640 Acres	
SERVICE WELL	KH1:10	X HORIZONTAL HOLE		FINISHED	00/00/00	17		X	
If directional or horizontal, see r		ion. 1/2 N - 1/3 V	DATE	OF WELL	06/29/20				
COUNTY BLAINE	SEC 22	TWP 16N RGE 13W	СОМЕ	PLETION	09/09/20	17			
NAME DUNN		WELL 1R-1		ROD DATE	09/10/20				
NW 1/4 NW 1/4 NW	/ 1/4 NE 1/4 FNL OF 1/4 SEC	325' FEL OF 1/4 SEC 235	59' RECC	MP DATE		W <sub>-</sub>			
EL EVATION.		(if known) 35° 51' 17.73		ongitude 98	34' 8.66	66W			
OPERATOR HIGHMARK	ENERGY OPERATIN	NG LLC	OTC/OCC	220	31 0				
	CAROLYN PKWY ST		OPERATO	R NO. 200	010	—— L			
	ANOLINFRWIST		· ·		75000.00	140			
			X		75039-39		L	OCATE WE	ELL
X SINGLE ZONE		CASING & CEMEN	SIZE	WEIGHT	GRADE	FEET	PSI	SAX	TOP OF CMT
MULTIPLE ZONE		CONDUCTOR	30"	310#	X54	40'		- 0,00	10/ 0/ 0///
Application Date COMMINGLED		SURFACE	20"	94#		286'		630	SURFACE
Application Date  LOCATION 660	0779	INTERMEDIATE	-		J-55				
EXCEPTION ORDER INCREASED DENSITY	3779	INTERMEDIATE	13-3/8"	54.5#	J-55	1,496'		950	620'
ORDER NO			9-5/8"	40#	P-110	9,486'		1025	4505'
		PRODUCTION	5-1/2"	23#	P-110	16,430'		1785 TOTAL	7093'
PACKER @ 10964' BRAN		PLUG @				TYPE _		DEPTH	16,450'
PACKER @ BRAN	- Andrewson and the second sec	PLUG @	TYPE		PLUG @ .	TYPE _			
FORMATION	359MSSP								360400
SPACING & SPACING	660363 (640)	I			-				
ORDER NUMBER CLASS: Oil, Gas, Dry, Inj,		+							
Disp, Comm Disp, Svc	GAS		-						
PERFORATED	11,430' - 16,331'								
INTERVALS									
ACID/VOLUME	30,500 GALS 15% F								
FRACTURE TREATMENT	296,910 BBLS FLUI	ID							
FRACTURE TREATMENT (Fluids/Prop Amounts)	13,152,300 LBS PR	OPPANT							
	Min Gas	Allowable (165 OR	:10-17-7)			urchaser/Measurer Sales Date	_	ENLINK O	
INITIAL TEST DATA	Oil Allov				riist c	June Date	(	09/10	/2017
INITIAL TEST DATE	11/10/2017						)	Contract of the Contract of th	
OIL-BBL/DAY	166								
OIL-GRAVITY ( API)	60								4,000
GAS-MCF/DAY									
	2,989				-				
GAS-OIL RATIO CU FT/BBL	18,006				-				
WATER-BBL/DAY	1,278								
PUMPING OR FLOWING	FLOWING								
INITIAL SHUT-IN PRESSURE	3,160								
CHOKE SIZE	29/64								
FLOW TUBING PRESSURE	1,969								

ecord 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 nake 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.

LEANNA CANNON NAME (PRINT OR TYPE) 06/25/2018

DATE

972-685-0591 PHONE NUMBER

909 LAKE CAROLYN PARKWAY, STE. 1500, ADDRESS

IRVING,

75039 STATE

CANNON@HIGHMARK-ENERGY.COM EMAIL ADDRESS