

**KANSAS CORPORATION COMMISSION  
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST**

FORM G-2  
(Rev. 8/98)

TYPE TEST:

- Open Flow  
 Deliverability

TEST DATE: 10/25/2016 API No. 187-21322-00-00

Company White Exploration		Lease Milton			Well Number 1	
County Stanton	Location 560'FNL 979'	Section 4	TWP 30s	RNG (E/W) 39	Acres Attributed 160	
Field wildcat	Reservoir Morrow	Gas Gathering Connection Linn				
Completion Date 4/14/2016	Plug Back Total Depth 5832	Packer Set at none				
Casing Size 4.500	Weight 10.500	Internal Diameter 5853	Set at	Perforations 5586	To 5594	
Tubing Size 2.375	Weight 4.700	Internal Diameter 1.995	Set at	Perforations 5574	To	
Type Completion (Describe) frac	Type Fluid Production water	Pump Unit or Traveling Plunger? no				
Producing Thru (Annulus/Tubing) tubing	% Carbon Dioxide 0.229	% Nitrogen 14.461	Gas Gravity- Gg 0.722			
Vertical Depth (H) 5590	Pressure Taps	Meter Run Size 3.075				
Pressure Buildup: Shut in	10/21/2016@1900	TAKEN	10/24/2016@0930			
Well on Line: Started	10/24/2016@0930	TAKEN	10/25/2015@1330			

**OBSERVED SURFACE DATA**

Static/ Dynamic Property	Orifice Size in.	Meter Pressure psig	Pressure Diff. In. H <sub>2</sub> O	Flowing Temp. t.	WellHead Temp. t.	Casing WellHead Press. (P <sub>w</sub> ) (P <sub>t</sub> ) (P <sub>c</sub> )		Tubing WellHead Press. (P <sub>w</sub> ) (P <sub>t</sub> ) (P <sub>c</sub> )		Duration (Hours)	Liquid Prod. Barrels
						psig	psia	psig	psia		
Shut-in						1255	1268	1250	1263	85.0	
Flow	1.250	5.8	85.40	73		1020	1033	957	970	28.0	1.7

**FLOW STREAM ATTRIBUTES**

COEFFICIENT (F <sub>b</sub> ) Mcf/d	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR Eg	FLOWING TEMP FACTOR Ft	DEVIATION FACTOR E <sub>pv</sub>	RATE OF FLOW R Mcf/d	GOR	G <sub>m</sub>
7.771	18.9	40.18	1.1769	0.9877	1.0010	363	253789	0.738

**(OPEN FLOW)(DELIVERABILITY) CALCULATIONS**

(P <sub>c</sub> ) <sup>2</sup> = 1608.1	(P <sub>w</sub> ) <sup>2</sup> = 1067.3	P <sub>d</sub> = 0.2	%	(P <sub>c</sub> - 14.4) + 14.4 =	(P <sub>a</sub> ) <sup>2</sup> = 0.207	(P <sub>d</sub> ) <sup>2</sup> = 0.01	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	$(P_c)^2 - (P_w)^2$	$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_d)^2}$ or $\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_w)^2}$	LOG	Backpressure Curve Slope "n" ---- or ---- Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability = R x Antilog Mcf/d
1607.91	540.78	2.973	0.4732	0.642	0.3038	2.013	731
1608.07	540.78	2.974	0.4733	0.642	0.3038	2.013	731

OPEN FLOW 731 Mcfd @ 14.65 psia DELIVERABILITY 731 Mcfd @ 14.65 psia

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated herein and that said report is true and correct. Executed this the 14 day of Nov, 2016

Witness (if any)

Received  
KANSAS CORPORATION COMMISSION

*Paul [Signature]*  
For Company

For Commission

**NOV 28 2016**  
CONSERVATION DIVISION  
WICHITA, KS

Checked by

**KANSAS CORPORATION COMMISSION**  
MULTIPOINT BACK PRESSURE TEST

FORM G-1  
8-7-58

TYPE TEST: <input checked="" type="checkbox"/> <b>Initial</b> <input type="checkbox"/> <b>Annual</b> <input type="checkbox"/> <b>Special</b>		TEST DATE: <b>10/24/2016</b>			
COMPANY <b>White Exploration</b>		LEASE <b>Milton</b>		WELL NO. <b>1</b>	
COUNTY <b>Stanton</b>	LOCATION <b>560'FNL 979'</b>	SECTION <b>4</b>	TWP <b>30s</b>	RNG <b>39</b>	ACRES <b>160</b>
FIELD <b>wildcat</b>	RESERVOIR <b>Morrow</b>	PIPELINE CONNECTION <b>Linn</b>			
COMPLETION DATE <b>4/14/2016</b>		PLUG BACK DEPTH <b>5832</b>		PACKER SET AT <b>none</b>	
CASING SIZE <b>4.500</b>		WT. <b>10.500</b>	ID <b>5853</b>	SET AT <b>5586</b>	PERF. <b>5594</b>
TUBING SIZE <b>2.375</b>		WT. <b>4.700</b>	ID <b>1.995</b>	SET AT <b>5574</b>	PERF. <b>TO</b>
TYPE COMPLETION (Describe) <b>frac</b>			TYPE FLUID PRODUCTION <b>water</b>		
PRODUCING THRU (Annulus/Tubing) <b>tubing</b>			RESERVOIR TEMPERATURE F <b>143</b>		BAR PRESS - Pa <b>14.4 psia</b>
GAS GRAVITY - Gg <b>0.722</b>		% CARBON DIOXIDE <b>0.229</b>		% NITROGEN <b>14.461</b>	
VERTICAL DEPTH (ft) <b>5590</b>		TYPE METER CONN. <b>flange</b>		METER RUN SIZE <b>3.075</b>	
REMARKS					

**OBSERVED SURFACE DATA**

RATE NO.	ORIFICE SIZE in.	(METER) PRESSURE psig	DIFF. (h <sub>w</sub> ) (h <sub>c</sub> )	FLOWING TEMP. t.	WELLHEAD TEMP. t.	CASING WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P <sub>w</sub> ) (P <sub>t</sub> ) (P <sub>c</sub> ) psia	psig	(P <sub>w</sub> ) (P <sub>t</sub> ) (P <sub>c</sub> ) psia		
SHUT-IN						<b>1255</b>	<b>1268</b>	<b>1250</b>	<b>1263</b>	<b>78.00</b>	
1.	<b>1.250</b>	<b>5.30</b>	<b>82.40</b>	<b>65</b>		<b>1182</b>	<b>1195</b>	<b>1170</b>	<b>1183</b>	<b>1.00</b>	
2.	<b>1.250</b>	<b>8.10</b>	<b>152.60</b>	<b>66</b>		<b>1120</b>	<b>1133</b>	<b>1115</b>	<b>1128</b>	<b>1.00</b>	
3.	<b>1.250</b>	<b>9.30</b>	<b>189.00</b>	<b>67</b>		<b>1064</b>	<b>1077</b>	<b>1039</b>	<b>1052</b>	<b>1.00</b>	
4.	<b>1.250</b>	<b>11.40</b>	<b>241.00</b>	<b>67</b>		<b>1001</b>	<b>1014</b>	<b>968</b>	<b>981</b>	<b>1.00</b>	

**FLOW STREAM ATTRIBUTES**

RATE NO.	COEFFICIENT (F <sub>b</sub> ) Mcfd	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR Fg	FLOWING TEMP FACTOR Ft	DEVIATION FACTOR Fpv	RATE OF FLOW Q Mcfd	GOR	G <sub>m</sub>
2.	<b>7.771</b>	<b>21.2</b>	<b>56.88</b>	<b>1.1769</b>	<b>0.9943</b>	<b>1.0014</b>	<b>517</b>		<b>0.722</b>
3.	<b>7.771</b>	<b>22.4</b>	<b>65.07</b>	<b>1.1769</b>	<b>0.9933</b>	<b>1.0015</b>	<b>592</b>		<b>0.722</b>
4.	<b>7.771</b>	<b>24.5</b>	<b>76.84</b>	<b>1.1769</b>	<b>0.9933</b>	<b>1.0018</b>	<b>699</b>		<b>0.722</b>

**PRESSURE CALCULATION**

RATE NO.	Pt psia	Pc psia	Pw psia	(Pc) <sup>2</sup> Thousands	(Pw) <sup>2</sup> Thousands	PLOTTING POINTS		% SHUT-IN 100 $\left[ \frac{P_w - P_a}{P_c - P_a} \right]$
						(Pc) <sup>2</sup> - (Pw) <sup>2</sup> Thousands	Q Mcfd	
1.	<b>1183.1</b>	<b>1268.1</b>	<b>1195.1</b>	<b>1608.1</b>	<b>1428.3</b>	<b>179.8</b>	<b>354.8</b>	<b>94.2</b>
2.	<b>1128.1</b>	<b>1268.1</b>	<b>1133.1</b>	<b>1608.1</b>	<b>1283.9</b>	<b>324.2</b>	<b>517.9</b>	<b>89.2</b>
3.	<b>1052.1</b>	<b>1268.1</b>	<b>1077.1</b>	<b>1608.1</b>	<b>1160.1</b>	<b>447.9</b>	<b>592.0</b>	<b>84.8</b>
4.	<b>981.1</b>	<b>1268.1</b>	<b>1014.1</b>	<b>1608.1</b>	<b>1028.4</b>	<b>579.7</b>	<b>699.3</b>	<b>79.8</b>

**INDICATED WELLHEAD OPEN FLOW**

Mcfd @ 14.65 psia      "n" = **0.642**

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated herein and that said report is true and correct. Executed this the 17 day of Nov, 2016

Witness (if any)

For Commission

For Company

Checked by

Received  
KANSAS CORPORATION COMMISSION

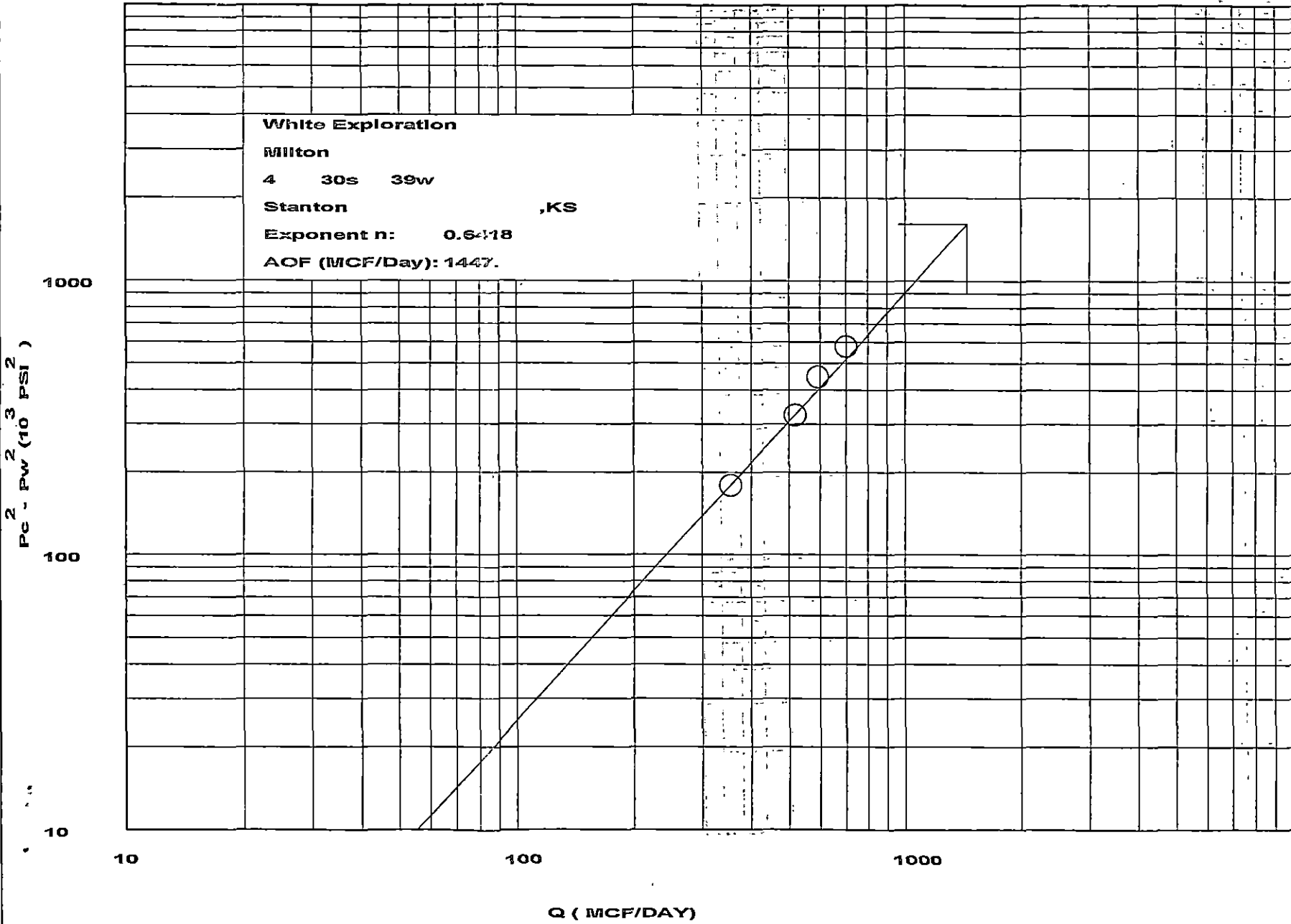
**NOV 28 2016**

CONSERVATION DIVISION  
WICHITA, KS

GAS WELL BACK PRESSURE CURVE

WELL TESTER: Trilobite Testing

TEST DATE: 10/24/2016



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WICHITA

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