

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow
 Deliverability

(See Instructions on Reverse Side)

Test Date:

API No. 15
007-24151-0000

Company M&M Exploration, Inc.		Lease Z Bar		Well Number 18-11	
County Barber	Location 2050 FSL 2030 FWL	Section 18	TWP 34	RNG (E/W) 14W	Acres Attributed 160
Field Unknown		Reservoir Mississippian		Gas Gathering Connection ONEOK	
Completion Date 05/30/2014		Plug Back Total Depth 5052		Packer Set at None	
Casing Size 4.5	Weight 10.5	Internal Diameter 4.052	Set at 5093	Perforations 4825	To 4874
Tubing Size 2.375	Weight 4.7	Internal Diameter 1.995	Set at 4903	Perforations	To
Type Completion (Describe) Single (Gas)		Type Fluid Production Saltwater/Crude		Pump Unit or Traveling Plunger? Yes / No Pump Unit	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide 0.0		% Nitrogen 1.6324	Gas Gravity - G _g 0.6189
Vertical Depth(H)		Pressure Taps		(Meter Run) (Prover) Size	

Pressure Buildup: Shut in August 27 2014 at 9:30 (AM) (PM) Taken August 28 2014 at 9:30 (AM) (PM)
Well on Line: Started _____ 20____ at _____ (AM) (PM) Taken _____ 20____ at _____ (AM) (PM)

OBSERVED SURFACE DATA

Duration of Shut-in _____ Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or Prover Pressure psig (P _m)	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _i) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						122	136.14				
Flow											

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _b) (F _p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F _g	Flowing Temperature Factor F _{tt}	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = _____ : (P_w)² = _____ : P_d = _____ % (P_c - 14.4) + 14.4 = _____ : (P_a)² = 0.207
(P_d)² = _____

(P _c) ² - (P _a) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _a ² 2. P _c ² - P _d ² divided by: P _c ² - P _w ²	LOG of formula 1. or 2. and divide by: $P_c^2 - P_w^2$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)

Open Flow _____ Mcfd @ 14.65 psia Deliverability _____ 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 therein, and that said report is true and correct. Executed this the 9th day of September, 2014.

KANSAS CORPORATION COMMISSION

SEP 19 2014

Witness (if any)

For Company

For Commission

CONSERVATION DIVISION
WICHITA, KS

Checked by

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator M&M Exploration, Inc.

and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named.

I hereby request a one-year exemption from open flow testing for the Z Bar 18-11 gas well on the grounds that said well:

(Check one)

- is a coalbed methane producer
- is cycled on plunger lift due to water
- is a source of natural gas for injection into an oil reservoir undergoing ER
- is on vacuum at the present time; KCC approval Docket No. _____
- is not capable of producing at a daily rate in excess of 250 mcf/D


I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.

Date: September 9, 2014

Received
KANSAS CORPORATION COMMISSION

SEP 19 2014

CONSERVATION DIVISION
WICHITA, KS

Signature: 

Title: President

Instructions: If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under **OBSERVED SURFACE DATA**. Shut-in pressure shall thereafter be reported yearly in the same manner for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption **IS** denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form must be signed and dated on the front side as though it was a verified report of annual test results.

Z-Bar 18-11 API# 15-007-24 Sec 18 Twp 34S Rge 14W																	250#x100"x.500	new 6/14/14
DATE	TANK 1	TANK 2	INCHES	DAILY PROD	WKLY OIL	PROD THIS MONTH	SW line	separator	TBG	CSG	LP	DIFF	MCF	WKLY GAS	TOTAL GAS MO.	HRS. ON	REMARKS	
Jun-1				0.00									0.00					
Jun-2				0.00									0.00					
Jun-3				0.00									0.00					
Jun-4				0.00									0.00					
Jun-5				0.00							55	0	0.00			12		
Jun-6				0.00							50	0	0.00			24		
Jun-7				0.00							48	0	0.00			24		
Jun-8				0.00	0.00	0.00					48	0	0.00	0.00	0.00	24		
DATE	TANK 1	TANK 2	INCHES	DAILY PROD	WKLY OIL	PROD THIS MONTH	SW line	separator	TBG	CSG	LP	DIFF	MCF	WKLY GAS	TOTAL GAS MO.	HRS. ON	REMARKS	
Jun-9				0.00								47	0	0.00		24		
Jun-10				0.00								47	0	0.00		24		
Jun-11				0.00								47	0	0.00		24		
Jun-12				0.00								47	0	0.00		24		
Jun-13				0.00								47	0	0.00		24	start pumping	
Jun-14				0.00			50	78	150	80		47	0	0.00		24		
Jun-15				0.00			50	77	150	80		46	0	0.00		24	16/64	
Jun-16				0.00	0.00	0.00	52	77	180	80		46	0	0.00	0.00	0.00	24	
DATE	TANK 1	TANK 2	INCHES	DAILY PROD	WKLY OIL	PROD THIS MONTH	SW line	separator	TBG	CSG	LP	DIFF	MCF	WKLY GAS	TOTAL GAS MO.	HRS. ON	REMARKS	
Jun-17				0.00			50	76	150	80		46	0	0.00		24		
Jun-18				0.00			52	77	160	80		47	0	0.00		24		
Jun-19				0.00			50	77	170	80		47	0	0.00		24		
Jun-20				0.00			52	77	150	80		47	0.25	12.34		24		
Jun-21				0.00			50	77	150	80		47	0.25	12.34		24		
Jun-22				0.00			52	77	150	80		47	0.25	12.34		24		
Jun-23				0.00			48	77		80		47	0.25	12.34		24		
Jun-24				0.00	0.00	0.00	50	76	150	80		45	0	0.00	49.36	49.36	24	
DATE	TANK 1	TANK 2	INCHES	DAILY PROD	WKLY OIL	PROD THIS MONTH	SW line	separator	TBG	CSG	LP	DIFF	MCF	WKLY GAS	TOTAL GAS MO.	HRS. ON	REMARKS	
Jun-25				0.00			50	60	150	80		46	5	25.78		24	chg plate 3/4" out 1/2" in	
Jun-26				0.00			53	60	170	80		46	5	25.78		24		
Jun-27				0.00			50	60	170	80		46	6	28.24		24		
Jun-28				0.00			50	60	150	70		46	6	28.24		24		
Jun-29				0.00			53	60	160	70		45	7	30.17		24		
Jun-30				0.00			53	53	150	57		45	8	32.26		24		
				0.00	0.00	0.00									170.48	219.84	24	
TOTAL GAS PROD		219.84		MCF avg	7.09													
TOTAL OIL PROD		0.00		BOPD avg	0.00													
TOTAL OIL SOLD		0.00																
TOTAL WTR PROD				BWPD avg														
Date	Ticket No	Tank No	From	To	Gross Bbls	Gvty.	Temp	% BSW										

Z-Bar 18-11																	250#x100"x.750		turned to sales 6-13-14	
DATE	TANK 1	TANK 2	INCHES	DAILY PROD	WKLY OIL	PROD THIS MONTH	SW line	separator	TBG	CSG	LP	DIFF	MCF	WKLY GAS	TOTAL GAS MO.	HRS. ON	REMARKS			
Jul-1				0.00			53	53	170	57	47	9	34.96			24	16/64"			
Jul-2				0.00			53	53	170	55	47	10	36.86			24				
Jul-3				0.00			50	52	160	54	47	11	38.65			24				
Jul-4				0.00			52	52	170	53	47	13	42.02			24				
Jul-5				0.00			45	50	120	55	49	15	46.09			24				
Jul-6				0.00			52	45	150	60	50	17	49.56			24				
Jul-7				0.00			52	43	170	58	50	21	55.09			24				
Jul-8				0.00	0.00	0.00	52	52	150	60	47	26	59.43	362.66	362.66	24				
Jul-9				0.00			52	52	175	55	45	32	64.51			24				
Jul-10				0.00			50	50	150	55	45	38	70.30			24				
Jul-11				0.00			54	52	170	58	47	40	73.71			24				
Jul-12				0.00			53	57	160	60	47	11	81.86			24	20/64", 1/2" out, 3/4" plate in			
Jul-13				0.00			50	57	170	60	47	12	85.50			24				
Jul-14				0.00			55	57	170	60	47	13	88.99			24				
Jul-15				0.00			50	56	170	60	47	14	92.35			24				
Jul-16				0.00	0.00	0.00	52	57	160	60	47	14	92.35	649.55	1012.21	24				
Jul-17				0.00			50	57	100	60	47	14	92.35			24				
Jul-18				0.00			52	57	150	60	45	15	93.53			24				
Jul-19				0.00			48	57	160	60	45	17	99.57			24				
Jul-20				0.00			48	57	150	60	47	17	101.76			24				
Jul-21				0.00			53	57	110	60	47	18	104.71			24				
Jul-22				0.00			48	57	100	60	48	18	105.82			24				
Jul-23				0.00			48	57	110	60	49	18	106.91			24				
Jul-24				0.00	0.00	0.00	53	57	120	60	48	18	105.82	810.47	1822.67	24				
Jul-25				0.00			53	57	130	60	48	18	105.82			24				
Jul-26				0.00			42	86	90	88	100	8	101.82			24				
Jul-27				0.00			42	80	50	85	100	8	101.82			24				
Jul-28				0.00			47	56	140	60	50	20	113.84			24				
Jul-29				0.00			50	54	100	54	50	20	113.84			24				
Jul-30				0.00			46	55	120	55	50	20	113.84			24				
Jul-31				0.00	0.00	0.00	50	55	150	55	48	20	111.54	762.53	2585.21	24				
TOTAL GAS PROD		2585.21		MCF avg	83.39															
TOTAL OIL PROD		0.00		BOPD avg	0.00															
TOTAL OIL SOLD		0.00																		
TOTAL WTR PROD				BWPD avg																
Date Ticket No Tank No From To Gross Bbls Gvty Temp % BSW																				

Received
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SEP 19 2014
CONSERVATION DIVISION
WICHITA, KS

Z-Bar 18-11																	250#x100"x.750		new 6-13-14					
API# 15-007-24151																	Sec 18 Twp 34S Rge 14W							
DATE	TANK 1	TANK 2	INCHES	DAILY PROD	WKLY OIL	PROD THIS MONTH	SW line	separator	TBG	CSG	LP	DIFF	MCF	WKLY GAS	TOTAL GAS MO.	HRS. ON	REMARKS							
Aug-1				0.00			53	55	140	55	47	20	110.37			24								
Aug-2				0.00			50	55	120	55	49	20	112.70			24								
Aug-3				0.00			52	55	110	55	50	20	113.84			24								
Aug-4				0.00			52	55	120	55	50	20	113.84			24								
Aug-5				0.00			47	55	130	55	50	20	113.84			24								
Aug-6				0.00			48	55	13	57	52	19	113.16			24								
Aug-7				0.00			50	55	90	55	51	19	112.06			24								
Aug-8				0.00	0.00	0.00	50	55	110	55	55	18	113.27	903.09	903.09	24								
DATE	TANK 1	TANK 2	INCHES	DAILY PROD	WKLY OIL	PROD THIS MONTH	SW line	separator	TBG	CSG	LP	DIFF	MCF	WKLY GAS	TOTAL GAS MO.	HRS. ON	REMARKS							
Aug-9				0.00			50	55	120	55	52	18	110.14			24								
Aug-10				0.00			50	55	110	55	52	18	110.14			24								
Aug-11				0.00			50	56	120	56	51	18.5	110.58			24								
Aug-12				0.00			50	56	110	56	51	18.5	110.58			24								
Aug-13				0.00			49	55	120	55	50	18.5	109.49			24								
Aug-14				0.00			50	55	150	55	50	19	110.96			24								
Aug-15				0.00			47	55	100	55	50	19	110.96			24								
Aug-16				0.00	0.00	0.00	48	55	120	55	50	19	110.96	883.80	1786.89	24								
DATE	TANK 1	TANK 2	INCHES	DAILY PROD	WKLY OIL	PROD THIS MONTH	SW line	separator	TBG	CSG	LP	DIFF	MCF	WKLY GAS	TOTAL GAS MO.	HRS. ON	REMARKS							
Aug-17				0.00			45	55	100	55	50	18	108.00			24								
Aug-18				0.00			53	55	140	55	50	18	108.00			24								
Aug-19				0.00			50	55	130	55	50	18	108.00			24								
Aug-20				0.00			50	55	140	55	50	18	108.00			24								
Aug-21				0.00			50	55	100	55	47	19	107.58			24								
Aug-22				0.00			50	55	150	55	47	19	107.58			24								
Aug-23				0.00			48	55	130	55	45	19	105.27			24								
Aug-24				0.00	0.00	0.00	48	55	130	55	45	18	102.46	854.88	2641.78	24								
DATE	TANK 1	TANK 2	INCHES	DAILY PROD	WKLY OIL	PROD THIS MONTH	SW line	separator	TBG	CSG	LP	DIFF	MCF	WKLY GAS	TOTAL GAS MO.	HRS. ON	REMARKS							
Aug-25				0.00			55	55	50	55	47	18	104.71			24								
Aug-26				0.00			50	55	150	55	47	18	104.71			24								
Aug-27				0.00			46	24		122	45	0	0.00			24	SI 24 hr test							
Aug-28				0.00			45	55	130	70	49	25	126.00			24								
Aug-29				0.00			45	55	120	60	48	22	116.99			24								
Aug-30				0.00			45	55	100	55	47	17	101.76			24								
Aug-31				0.00	0.00	0.00	50	55	110	55	47	18	104.71	658.88	3300.65	24								
TOTAL GAS PROD		3300.65		MCF avg		106.47																		
TOTAL OIL PROD		0.00		BOPD avg		0.00																		
TOTAL OIL SOLD		0.00																						
TOTAL WTR PROD				BWPD avg																				
							Gross																	
Date:	Ticket No	Tank No	From	To	Bbls	Gvty.	Temp	% BSW																