

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

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OCT 15 2012

Type Test:

- Open Flow
 Deliverability

(See Instructions on Reverse Side)

Test Date:

API No. 15
00723855 - 00 - 00

KCC WICHITA

Company M&M Exploration, Inc.		Lease Z Bar		Well Number 32-6	
County Barber	Location 2080 FNL 2420 FWL	Section 32	TWP 33	RNG (E/W) 14W	Acres Attributed 160
Field Aetna Gas		Reservoir Mississippian		Gas Gathering Connection ONEOK	
Completion Date 5/4/2012		Plug Back Total Depth 4940'		Packer Set at None	
Casing Size 4.5	Weight 10.5	Internal Diameter 4.052	Set at 4940'	Perforations 4730	To 4790
Tubing Size 2.375	Weight 4.7	Internal Diameter 1.995	Set at 4807'	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 0.5502		% Nitrogen 0.6224	
Vertical Depth(H)		Pressure Taps		Gas Gravity - G ₀ 0.6722	
				(Meter Run) (Prover) Size	
Pressure Buildup: Shut in Sept. 12 20 12 at 12:00 (AM) (PM) Taken Sept. 13 20 12 at 12:00 (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 Prover Pressure psig (Pm)	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						70	84.4				
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_c)² = 0.207
(P_d)² = _____

(P _c) ² - (P _d) ² or (P _c) ² - (P _w) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _d ² 2. P _c ² - P _w ² divided by: P _c ² - P _w ²	LOG of formula 1. or 2. and divide by: $\left[\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2} \right]$	Backpressure Curve Slope = "n" ----- or Assigned Standard Slope	n x LOG $\left[\right]$	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 10th day of October, 20 12.

Witness (if any)

McL...

For Company

For Commission

Checked by

OCT 15 2012

KCC WICHITA

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 32-6
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: October 10, 2012

Signature: *M&M*

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.

DATE	TBG	CSG	LP	DIFF	MCF	WKLY GAS	TOTAL GAS MO.	HRS. ON	REMARKS	Wtr	Wtr Hauled
Jun-1			66	70	0	0.00		24			
Jun-2			66	65	0	0.00		24			
Jun-3			62	65	0	0.00		24			
Jun-4			62	65	0	0.00		24		5' 1" - 1' 0"	82
Jun-5			68	65	0	0.00		24			
Jun-6			65	70	0.25	7.11		24			
Jun-7			72	75	0.5	10.41		24			
Jun-8	200		72	75	1	14.72	32.24	32.24	24		
DATE	TBG	CSG	LP	DIFF	MCF	WKLY GAS	TOTAL GAS MO.	HRS. ON	REMARKS		
Jun-9	200		72	75	1	14.72		24			
Jun-10	200		62	75	2	20.82		24			
Jun-11	200		67	65	2	19.38		24			
Jun-12	200		65	70	2	20.11		24			
Jun-13	200		67	70	2	20.11		24			
Jun-14			67	70	2	20.11		24	shut PU down, gear box noise		
Jun-15			67	70	1	14.22		24			
Jun-16			67	67	0.25	6.96	136.45	168.70	24		
DATE	TBG	CSG	LP	DIFF	MCF	WKLY GAS	TOTAL GAS MO.	HRS. ON	REMARKS		
Jun-17			67	67	0	0.00		24			
Jun-18			67	67	0	0.00		24			
Jun-19			66	67	0	0.00		24			
Jun-20			66	67	0	0.00		24			
Jun-21			66	67	0	0.00		24			
Jun-22			66	67	0	0.00		24			
Jun-23			66	67	0	0.00		24			
Jun-24			66	67	0	0.00	0.00	168.70	24		
DATE	TBG	CSG	LP	DIFF	MCF	WKLY GAS	TOTAL GAS MO.	HRS. ON	REMARKS		
Jun-25			66	67	0	0.00		24	put gear box back on and start up		
Jun-26	190		62	65	0	0.00		24			
Jun-27	200		62	65	0.5	9.69		24			
Jun-28	190		64	62	0.5	9.47		24			
Jun-29	180		62	67	0.5	9.84		24			
Jun-30	150		64	67	1	13.92		24			
							42.91	211.61			
TOTAL GAS PRODUCED			211.61		MCF avg	7.05			Fluid from 32-6 goes to 31-2		

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Z-Bar 32-6		API # 15-007-23855		Sec 32 Twp 33S Rge 14W			100x250x.500		
DATE	TBG	CSG	LP	DIFF	MCF	WKLY GAS	TOTAL GAS MO.	HRS. ON	REMARKS
Jul-1		200	63	67	1	13.92		24	
Jul-2		200	62	65	2	19.38		24	
Jul-3		100	120	63	2	19.08		24	
Jul-4		200	62	63	2	19.08		24	
Jul-5		200	62	64	2	19.23		24	
Jul-6		200	62	64	2	19.23		24	
Jul-7		150	61	63	3	23.37		24	
Jul-8		200	61	58	3	22.42	155.73	155.73	24
Jul-9		230	61	68	3	24.28		24	
Jul-10		220	61	65	3	23.74		24	
Jul-11		290	62	64	4	27.20		24	
Jul-12		200	62	63	4	26.99		24	
Jul-13		210	62	63	4	26.99		24	
Jul-14		200	62	63	5	30.17		24	
Jul-15		200	62	63	5	30.17		24	
Jul-16		200	62	60	5	29.44	218.98	374.71	24
Jul-17		200	62	60	6	32.26		24	
Jul-18		200	61	56	6	31.16		24	
Jul-19		200	61	65	6	33.57		24	
Jul-20		200	61	63	6	33.05		24	
Jul-21		200	62	63	6	33.05		24	
Jul-22		200	62	62	6	32.79		24	
Jul-23		200	61	63	6	33.05		24	
Jul-24		200	61	63	6	33.05	261.98	636.69	24
Jul-25		160	61	63	6	33.05		24	
Jul-26		160	61	60	7	34.84		24	
Jul-27		160	61	62	8	37.86		24	
Jul-28		200	62	63	8	38.16		24	
Jul-29		200	62	63	8	38.16		24	
Jul-30		200	62	63	8	38.16		24	
Jul-31		200	62	60	8	37.25	257.49	894.18	24
TOTAL GAS PRODUCED		894.18		MCF avg		28.84	Fluid from 32-6 goes to 31-2		

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Z-Bar 32-6		API # 15-007-23855		Sec 32 Twp 33S Rge 14W			100x250x.500			
DATE	TBG	CSG	LP	DIFF	MCF	WKLY GAS	TOTAL GAS MO.	HRS. ON	REMARKS	
Aug-1		200	62	60	8	37.25		24		
Aug-2		200	62	60	8	37.25		24		
Aug-3		200	62	60	8	37.25		24		
Aug-4		200	62	60	8	37.25		24		
Aug-5		200	62	60	8	37.25		24		
Aug-6		200	62	60	8	37.25		24		
Aug-7		200	62	60	8	37.25		24		
Aug-8		200	62	60	8	37.25	297.96	297.96	24	
Aug-9		200	62	58	8	36.62		24		
Aug-10		200	60	57	8	36.30		24		
Aug-11		200	65	58	8	36.62		24		
Aug-12		200	65	58	8	36.62		24		
Aug-13		200	65	58	8	36.62		24		
Aug-14		200	65	59	8	36.93		24		
Aug-15		200	65	57	8	36.30		24		
Aug-16		200	65	57	8	36.30	292.32	590.28	24	
Aug-17		200	65	62	9	40.16		24		
Aug-18		180	65	61	8	37.55		24		
Aug-19		180	65	55	8	35.66		24		
Aug-20		180	65	55	9	37.82		24		
Aug-21		200	64	55	12	43.67		24		
Aug-22		180	54	55	11	41.81		24		
Aug-23		110	54	55	11	41.81		24		
Aug-24		160	52	55	11	41.81	320.31	910.59	24	
Aug-25		160	52	55	11	41.81		24		
Aug-26		160	52	55	11	41.81		24		
Aug-27		160	50	53	12	42.87		24		
Aug-28		150	50	54	12	43.27		24		
Aug-29		150	50	53	12	42.87		24		
Aug-30		160	50	54	12	43.27		24		
Aug-31		150	50	54	12	43.27	299.20	1209.79	24	
TOTAL GAS PRODUCED		1209.79		MCF avg		39.03		Fluid from 32-6 goes to 31-2		

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Z-Bar 32-6		API # 15-007-23855		Sec 32 Twp 33S Rge 14W			100x250x.500		
DATE	TBG	CSG	LP	DIFF	MCF	WKLY GAS	TOTAL GAS MO.	HRS. ON	REMARKS
Sep-1	160	50	55	10	39.87			24	
Sep-2	160	50	56	10	40.23			24	
Sep-3	160	50	56	10	40.23			24	
Sep-4	160	50	53	13	44.62			24	
Sep-5	160	50	51	12	42.06			24	
Sep-6	160	50	51	13	43.77			24	
Sep-7	160	45	50	13	43.34			24	
Sep-8	180	44	47	14	43.61	337.73	337.73	24	
DATE	TBG	CSG	LP	DIFF	MCF	WKLY GAS	TOTAL GAS MO.	HRS. ON	REMARKS
Sep-9	160	44	46	15	44.66			24	
Sep-10	150	42	45	15	44.17			24	
Sep-11	150	40	45	16	45.62			24	
Sep-12	150	40	46	14	21.57			12	24 hr State SI test
Sep-13	70	70	45	18	24.19			12	24 hr State SI test
Sep-14	70	60	47	16	46.62			24	
Sep-15	170	44	50	15	46.56			24	
Sep-16	160	44	47	13	42.02	315.40	653.12	24	
DATE	TBG	CSG	LP	DIFF	MCF	WKLY GAS	TOTAL GAS MO.	HRS. ON	REMARKS
Sep-17	150	44	47	13	42.02			24	
Sep-18	150	40	47	12	40.37			24	
Sep-19	160	52	52	8	34.67			24	
Sep-20	160	52	57	7	33.96			24	
Sep-21	220	51	55	14	47.17			24	
Sep-22	150	40	47	14	43.61			24	
Sep-23	140	40	46	13	41.57			24	
Sep-24	150	36	45	13	41.12	324.49	977.62	24	
DATE	TBG	CSG	LP	DIFF	MCF	WKLY GAS	TOTAL GAS MO.	HRS. ON	REMARKS
Sep-25	150	40	45	13	41.12			24	
Sep-26	105	35	43	12	38.62			24	
Sep-27	140	40	46	13	41.57			24	
Sep-28	180	40	45	13	41.12			24	
Sep-29	150	40	45	14	42.67			24	
Sep-30	160	40	43	14	41.71			24	
						246.80	1224.42		
TOTAL GAS PRODUCED		1224.42		MCF avg		40.81	Fluid from 32-6 goes to 31-2		

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