KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:										
Open Flow	<i>'</i>		Test Date:				API N	o. 15		
Deliverabil	lty							-00	7-208	10-0000
Company Mu11 D	rilling Con	mpany, Inc	c.601		Lease Wheeloc	k A				Well Number
County	, Location	I NU CH	Section	101. 4	TWP 31S	•	RNG (E/V	v)	. John Company	Acres Attributed
Field	150 1	V- NW SW.	Reservoir	ए. प्रतिष्	The state of			ering Connec		to the first of the second
Medici	ne River	M	ississipp						n Gas Supp	1y
Completion Date			Plug Back Tot	al Depth			Packer Se	t at 30%	40° - 4	
4-23-8			Internal Diam	otor	Set at		Perfora		То	
Casing Size 4 1/2"	Weight 10.5/		Internal Diam	cici	4319	,	1. 5.1.6.1	425	50	4268
Tubing Size	Weight	<u> </u>	Internal Diam	eter	Set at		Perfora		То	
, as g	:									
Type Completion	(Describe)		Type Fluid Pro						Plunger? Yes	
Gas			0il Gas	& Wate	er	9	Yes	n	Gas Gi	ravity - G
Producing Thru (Annulu	Annulus'/ Tübing)		% Carbon Dic	oxide				1	and any cas di	avity: $\omega_g = \omega_g$
Vertical Depth(H)				Pressur	o Tone		<u> </u>	· · · · · · · · · · · · · · · · · · ·	(Meter	Run) (Prover) Size
		i. 3		V in .	e e C	the section		in the same	÷ 1	•
******	o: Shut in	-10 20	10 7	20 /	<u> </u>	i v		, , , ,	at	(AM) (PM)
Pressure Buildup	o: Shut in	19	at	<u> </u>	AMI (PM)	акеп			at	(AN) (F N)
Well on Line:	Started	20-10 18	at	50 _(AMY(PM) T	aken		19	at	(AM) (PM)
			O	SERVED	SURFACE			1	Duration of Shut	t-inHours
Static / Orifice	i <i>meter</i> or	Pressure Differential		ell Head	Casin Wellhead P			ubing d Pressure	Duration	Liquid Produced
Dynamić Size	Prover Pressure	e in (h)	Temperature Ten	nperature	- W					
Property inches	e I	1 '''	t i	i t	(P,) or (P,			(P _t) or (P _c)	(Hours)	(Barrels)
Property inche	es psig	Inches H ₂ 0	t	t	psig	or (P _e) psia	(P _w) or psig	(P _t) or (P _c)		
Property inche	e I	1 '''	t	t					24	(Barrels)
	e I	1 '''	t	t	psig					
Shut-In	e I	1 '''			84	psia				
Shut-In, Flow	ss psig	Inches H ₂ 0		OW STRE	84 EAM ATTRIL	psia BUTES	psig	pšia	24	Flowing
Shut-In, Flow	se I	1 '''	FL Gravity	OW STRE	84	psia BUTES Devi	psig		24	Flowing Fluid
Shut-In, Flow Plate Coefficient (F _b) (F _p)	Circle one: Meter or Prover Pressure	Press Extension	FL	OW STRE	Psig S4 EAM ATTRIL Flowing imperature factor	psia BUTES Devi	psig	pšia	24 v GOP	Flowing Fluid Gravity
Shut-In, Flow Plate Coefficient	S psig Circle one: Meter or	Inches H ₂ 0	FL Gravity Factor	OW STRE	psig 84 EAM ATTRIE Flowing Imperature	psia BUTES Devi Fac	psig ation ctor	psia Metered Flov	24 v GOR (Cubic F	Flowing Fluid Gravity
Shut-In, Flow Plate Coefficient (F _b) (F _p)	Circle one: Meter or Prover Pressure	Press Extension	FL Gravity Factor	OW STRE	Psig S4 EAM ATTRIL Flowing imperature factor	psia BUTES Devi Fac	psig ation	psia Metered Flov	24 v GOR (Cubic F	Flowing Fluid Gravity
Shut-In Flow Plate Coefficient (F _b) (F _p)	Circle one: Meter or Prover Pressure	Press Extension	FL Gravity Factor	OW STRE	Psig Suppose	Devi	psig ation	psia Metered Flov	24 v GOR (Cubic F Barre	Flowing Fluid Gravity G _m
Shut-In, Flow Plate Coefficient (F _b) (F _p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension	Gravity Factor F _g	OW STRE	FAM ATTRII Flowing imperature Factor Fit	Devi	psig ation ctor	psia Metered Flov	y GOP (Cubic F Barre	Flowing Fluid Gravity
Plate Coefficient (F _b) (F _p) McId	Circle one: Meter or Prover Pressure psia	Press Extension √P _m x H _w	Gravity Factor F _g (OPEN FLOW P _d =	OW STRE	Page 1 Pa	Devi Fac	ation ctor	psia Metered Flov	y GOP (Cubic F Barre	Flowing Fluid Gravity G m
Shut-In Flow Plate Coefficient (F _b) (F _p) McId	Circle one: Meter or Prover Pressure psia	Press Extension √P _m x H _w	Gravity Factor F _g (OPEN FLOW P _d =	OW STRE	Flowing mperature Factor F _{tt} RABILITY) Backpres Slope	Devi Fac F CALCUL	ation ctor pv ATIONS 14.4 =	Metered Flov R (Mcfd)	y GOP (Cubic F Barre	Flowing Fluid Gravity G _m 3) ² = 0.207 3) ² = Open Flow Deliverability
Shut-In, Flow Plate Coefficient (F _b) (F _p) Mcfd	Circle one: Meter or Prover Pressure psia (P _w) ² =	Press Extension √ P _m x H _w : : :hoose formula 1 or 2: 1. P _c ² - P _c ² 2. P _c ² - P _d ²	Gravity Factor F _g (OPEN FLOW P _d = LOG of tormula 1. or 2. and divide P	OW STRE	Flowing imperature Factor Fr. (P. Backpres Slop.	Devi Fac F CALCUL - 14.4) + sure Curve e = "n" or	ation ctor	Metered Flov R (Mcfd)	y GOP (Cubic F Barre	Flowing Fluid Gravity G
Shut-in Flow Plate Coefficient (F _b) (F _p) Mcfd	Circle one: Meter or Prover Pressure psia : (P _w) ² = (P _c) ² - (P _w) ²	Press Extension √P _m x H _w Choose formula 1 or 2: 1. P _c ² - P _s ² 2. P _c ² - P _s ² Invided by: P _c ² - P _w ²	Gravity Factor F _g (OPEN FLOW P _d =	OW STRE	Flowing imperature Factor Fr. (P. Backpres Slop.	Devi Fac F CALCUL - 14.4) +	ation ctor	Metered Flov R (Mcfd)	y GOP (Cubic F Barre	Flowing Fluid Gravity G Open Flow Deliverability Equals R x Antilog
Shut-in Flow Plate Coefficient (F _b) (F _p) Mcfd P _c) ² =	Circle one: Meter or Prover Pressure psia (P _w) ² = (P _c) ² - (P _w) ²	Press Extension √P _m x H _w : thoose formula 1 or 2: 1. P _c ² - P _s ² 2. P _c ² - P _c ² ivided by: P _c ² - P _w ²	Gravity Factor F _g (OPEN FLOW P _d = LOG of tormula 1. or 2. and divide P	OW STRE	Flowing imperature Factor Fit Packpres Slop-	Devi Fac F CALCUL - 14.4) + sure Curve e = "n" or- igned rd Slope	ation ctor PY ATIONS 14.4 =	Metered Flov R (Mcfd)	y GOP (Cubic F Barre	Flowing Fluid Gravity G Open Flow Deliverability Equals R x Antilog
Shut-In Flow Plate Coefficient (F _b) (F _p) Mcfd	Circle one: Meter or Prover Pressure psia (P _w) ² = (P _c) ² - (P _w) ²	Press Extension √P _m x H _w Choose formula 1 or 2: 1. P _c ² - P _s ² 2. P _c ² - P _s ² Invided by: P _c ² - P _w ²	Gravity Factor F _g (OPEN FLOW P _d = LOG of tormula 1. or 2. and divide P	OW STRE	Flowing imperature Factor Fit Packpres Slop-	Devi Fac F CALCUL - 14.4) + sure Curve e = "n" origned rd Slope	ation ctor PY ATIONS 14.4 =	Metered Flov R (Mcfd)	y GOP (Cubic F Barre	Flowing Fluid Gravity G Open Flow Deliverability Equals R x Antilog
Shut-In Flow Plate Coefficient (F _b) (F _p) Mcfd P _c) ² = Or (P _c) ² · (P _d) ² Or (P _c) ² · (P _d) ²	Circle one: Meter or Prover Pressure psia $(P_w)^2 = (P_c)^2 - (P_w)^2$	Press Extension √P _m x H _w Choose formula 1 or 2: 1. P _c ² - P _c ² 2. P _c ² - P _c ² ivided by: P _c ² - P _w ²	Gravity Factor F g (OPEN FLOW P d = LOG of tormula 1. or 2. and divide by:	OW STRE	Psig Standard Psig Ps	Devi Fac Fac Fac Fac Fac Fac Fac Fac Fac Fac	ation ctor PY ATIONS 14.4 =	Metered Flov R (Mcfd)	Y GOP (Cubic F Barre	Flowing Fluid Gravity G
Plate Coefficient (F _b) (F _p) Mcfd P _c) ² = (P _c) ² · (P _d) ² Open Flow	Circle one: Meter or Prover Pressure psia ((P _w)) ² =	Press Extension √P _m x H _w Choose formula 1 or 2: 1. P _c ² - P _c ² 2. P _c ² - P _c ² wided by: P _c ² - P _w ² Mcfd @ 14.65	Gravity Factor F _g (OPEN FLOW P _d = LOG of tormula 1. or 2. and divide by:	OW STRE	Flowing imperature Factor Fr. (P. Backpres Slop-Ass Standa	Devi Fac F CALCUL - 14.4) + sure Curve e = "n" origned rd Slope	psig ation ctor pv ATIONS 14.4 =	Metered Flov R (Mcfd)	QOP (Cubic F Barre	Flowing Fluid Gravity G Open Flow Deliverability Equals R x Antilog Mctd
Shut-In Flow Plate Coefficient (F _b) (F _p) Mcfd P _c) ² = (P _c) ² Or (P _c) ² • (P _d) ² Open Flow	Circle one: Meter or Prover Pressure psia ((P _w)) ² =	Press Extension √P _m x H _w Choose formula 1 or 2: 1. P _c ² - P _c ² 2. P _c ² - P _c ² wided by: P _c ² - P _w ² Mcfd @ 14.65	Gravity Factor F _g (OPEN FLOW P _d = LOG of formula 1. or 2. and divide by: 5 psia	OW STRE	Psig Standar Psig Psig	Devi Fac Fac CALCUL - 14.4) + sure Curve e = "n" or- igned rd Slope	ation ctor pv ATIONS 14.4 =	Metered Flov R (Mcfd)	QOP (Cubic F Barre	Flowing Fluid Gravity G
Shut-In Flow Plate Coefficient (F _b) (F _p) Mcfd P _c) ² = (P _c) ² (P _c) ² - (P _d) ² Open Flow The undersign	Circle one: Meter or Prover Pressure psia (P _e) ² - (P _w) ² gned authority, on the second content of	Press Extension √P _m x H _w Choose formula 1 or 2: 1. P _c ² - P _c ² 2. P _c ² - P _c ² wided by P _c ² - P _w ² Mcfd @ 14.65 behalf of the Co	Gravity Factor F _g (OPEN FLOW P _d = LOG of formula 1. or 2. and divide by:	OW STRE	Psig Standar Psig Psig	Devi Fac Fac CALCUL - 14.4) + sure Curve e = "n" or- igned rd Slope	ation ctor pv ATIONS 14.4 =	Metered Flov R (Mcfd)	QOP (Cubic F Barre	Flowing Fluid Gravity G Open Flow Deliverability Equals R x Antilog Mctd
Plate Coefficient (F _b) (F _p) Mcfd P _c) ² = (P _c) ² · (P _d) ² Open Flow The undersign	Circle one: Meter or Prover Pressure psia ((P _w)) ² =	Press Extension √P _m x H _w Choose formula 1 or 2: 1. P _c ² - P _c ² 2. P _c ² - P _c ² Mcfd @ 14.65 behalf of the Co	Gravity Factor F _g (OPEN FLOW P _d = LOG of formula 1. or 2. and divide by:	OW STRE	Psig Standar Psig Psig	Devi Fac F CALCUL - 14.4) + sure Curve e = "n" origned rd Slope	ation ctor pv ATIONS 14.4 =	Metered Flov R (Mcfd)	QOP (Cubic F Barre	Flowing Fluid Gravity G Open Flow Deliverability Equals R x Antilog Mcfd Sia Developed of the facts
Plate Coefficient (F _b) (F _p) Mcfd (P _c) ² = (P _c) ² (P _c) ² - (P _d) ² Open Flow The undersign	Circle one: Meter or Prover Pressure psia (P _w) ² = (P _w) ² gned authority, on indicate that said report is	Press Extension √P _m x H _w Choose formula 1 or 2: 1. P ₂ - P ₂ 2. P ₂ - P ₂ wided by P ₂ - P _w Mcfd @ 14.65 behalf of the Co	Gravity Factor F _g (OPEN FLOW P _d = LOG of tormula 1. or 2. and divide by: 5 psia company, states cct. Executed to	OW STRE Te (DELIVE % 2 - Pw²	Psig Standar Psig Psig	Devi Fac Fac CALCUL - 14.4) + sure Curve e = "n" or- igned rd Slope	ation ctor pv ATIONS 14.4 =	Metered Flov R (Mcfd)	QOF (Cubic F Barre) (P) (P) Antilog Mcfd @ 14.65 ps	Flowing Fluid Gravity G Open Flow Deliverability Equals R x Antilog Mctd Sia Dwledge of the facts , 19

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I declare under penalty or 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 <u>Mull Drilling Company</u>, <u>Inc.</u> and that the foregoing information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon gas production records and records of equipment installation and/or of type completion or upon use of the gas well herein named.

I hereby request a permanent exemption from open flow testing for the --Wheelock A #1 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
X	is incapable of producing at a daily rate in excess of 150 mcf/D

Date: 10-22-10

Signature:

Title

organical designature:

Instructions: All active gas wells must have at least an original G-2 form on file with the conservation division. If a gas well meets 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 obtain a testing exemption.

At some point during the succeeding calendar year, wellhead shut-in pressure shall be 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.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than thirty (30) days after the taking of the pressure reading. The form must be signed and dated on the front side as though it was a verified report of test results.