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

Type Test	ype Test: (See Instructions on Reverse Side)																
Open Flow					Test Date:					API No. 15							
Dally and bills.						10/6/2010 API No. 15 15-075-30113					-(	0000					
Company Chesapeake Operating, Inc.							Lease Thielen					Well Number 1-27					
71/1/2					Section 27				RNG (E/W) 41W			1	Acres Attributed				
Field Reservoir Bradshaw Winfield						mffold —Chasanaaka Energy											
Completion Date Plu						Plug Back	Plug Back Total Depth				Packer Set at						
Casing Size Weight					Internal D	Internal Diameter 5.012			Set at Perforation 2000			tians To					
	ubing Size Weight			Internal Diameter			Set at Renfo		prations		To						
2.375 Type Com	•	n (De	4.7 escribe)		<u> </u>	1.995 2628 Type Fluid Production			Pump Unit or Traveling Plunger? Yes / No					<del></del> -			
Single C		<b>/ 9</b>				Water	-4 5	Na. da			Pump			0 0-	!ts. C		
Annulus	•	(Ani	nulus / Tubin	ig)		% U	arbon E	JIOXIO			% Nitrog	jen		Gas Gr	_	<u> </u>	
Vertical Depth(H) Pressure Taps (Meter Run) (Prover) Size 2637																	
Pressure	Bulldu	p:	Shut in	/6	2	0 10 at 8	AM		(AM) (PM)	Taken_10	)/7	20	10	at 8 AM	(	AM) (PM)	
Well on L	lne:		Started		20	) at			(AM) (PM)	Taken		20		at	(	AM) (PM)	
							OBSE	RVE	D SURFACE	E DATA			Dura	tion of Shut-	in	Hours	
Static / Dynamic	ynamic Size		Circle one: Meter Provar Pressure		Pressure Differential in	- I Flowing		fead Casing Wellhead Pr (P_) or (P,)		Pressure			Duretion (Hours)			Liquid Produced (Barrels)	
Property Shut-In			psig (Pm)		Inches H <sub>2</sub> 0	1			pelg 61	psla 75.4	psig 116	130.4 24		24			
Flow												10011					
			L .	\			FLOW	STR	EAM ATTR	IBUTES	1		ı			<del></del>	
Plate Coefficient (F <sub>a</sub> ) (F <sub>p</sub> ) Mctd		Circle one; Meter or Prover Pressure psia			Press Extension ✓ P <sub>m</sub> xh	_		Flowing Temperature Factor F <sub>11</sub>		Fa	Deviation Meter Factor F <sub>ev</sub> (M		(Cubic Fe			Flowing Fluid Gravity G_m	
				_	<del> </del>												
(P <sub>e</sub> )² =		_;	(P <sub>w</sub> )² :	=	:	(OPEN FLO		ELIVE	ERABILITY) 6 (P	) CALCUL <sup>)</sup> <sub>c</sub> - 14.4) +		<u></u> :		(P <sub>a</sub> )	² = 0.2	07	
• •	(P <sub>a</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup> or (P <sub>a</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup>		(P <sub>e</sub> ) <sup>2</sup> - (P <sub>u</sub> ) <sup>2</sup>		1. P2-P2 LOG of formula 1 or 2: 1. P2-P2 to formula 1, or 2. 2. P2-P4 1, or 2. and divide by: P2-P2 by:		Backpressi Slope 		ssure Curve be = "n" or signed ard Slope	Curve n x LOG			Antilog De Equal		pen Flow liverability is R x Antilog (Mold)		
Onen Flor			<u></u>		Mefd @ 14	65 nels	······		Deliverab	ility	<u> </u>	····	Mefe	6 14 65 ne	la		
Open Flow Mcfd © 14.65 psia Deliverability Mcfd © 14.65 psia  The understand outbority on behalf of the Company states that he is duly authorized to make the above report and that he has knowledge of																	
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 15th day of November , 20 10 .																	
									RECE							RECEIVE	
Witness (If any)							-	4	For	Compan	y						
For Commission JA							JAN 2	0 201	1	Che	cked by			DEC 0 6 20			

exempt sta	re under penalty of perjury under the laws of the state of Kansas that I am authorized to request tus under Rule K.A.R. 82-3-304 on behalf of the operator Chesapeake Operating, Inc.  e 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.								
1 hereb	y request a one-year exemption from open flow testing for the Thielen 1-27							
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							
	er agree to supply to the best of my ability any and all supporting documents deemed by Commission cessary to corroborate this claim for exemption from testing.							
Date: Nov	ember 15, 2010							
	Signature:							
	Title: David Wiist, Production Engineer							

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.

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JAN 2 0 2011

KCC WICHITA

DEC 0 6 2010 KCC WICHITA

KCC MICHINA

OKLAHOMA CITY, OKLA.

<del></del>	SALES CO	NTRACT AN	D FIELD W	ORK ORD					
lob No. 901-779	Charge To:	1525-N	LEBIAS H	a Nat	Cus Ord	stomer ler No.			
Date 10-26-65	Address 300	11.2505	eph		Nes Tov	erest Syrac	CUS		
Operator EICH Man	City & State	5+1195	KOB	rasKo	Fie	0.1			
Riggers Daque He - CLark	Mail Invoices To:	50111	e			ise and	hon	#1	
<i>/ /</i> .	Address				Cou	inty Ham	1/47	toN	
Legal Description 27-225-4/W	City & State	11			Sta	e Hans	 d5		
In consideration of service work to be perfor  (1) All accounts are to be paid within the te be charged from the date of such invoice, the customer agrees to pay all costs of c  (2) Because of the uncertain conditions and Services, Inc., cannot guarantee the rest  (8) Should any Go Jet Services, Inc., instrum able effort to recover same, and to reimb recovered.  (4) It is further understood and agreed that  (5) The customer certifies that it has the fu Inc., is in proper and suitable condition  (6) The customer agrees to pay any and all county, state and federal taxes and fees  (7) No employee is authorized to alter the te	rms fixed by Go Jet S In the event the enfor- ollection and reasonable hazards existing in a values of their services an tents or equipment be leaders of their services. In all depth measurements all right and authority for the performances of taxes, fees and charges or reimburse Go Jet S.	ervices Inc. invoicement of a claim attorney's fees, well which are bend will not be host or damaged in inc., for the value shall be supervisto order such wo f said work, placed on servicervices, Inc., for	es; and should for indebtednes which in no ever which in no ever yond the control the performant of the items we do by the custork on such well es rendered by such taxes and	these terms no se, arising here no shall be less ol of Go Jet Se for personal or ce of the opera which cannot be other or its emil and that the Go Jet Servi fees paid to s	pt be observed, inter- under, is placed in than \$75.00. rvices, Inc., it is ur property damage in tions requested, the per recovered, or the ployees. well in which the wices, Inc., by gover- aid agencies.	est at the rate of the hands of an sideratood by the of the performance customer agrees a cost of repair work is to be don	customer custom es of t to mak ring da	y for collection, ner that Go Jet their sevices. te every reason- smage to items Go Jet Services,	
WORK PERF		PRINT CORREC	CT NAME SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE PRICING						
an Cortehationa Gamas	+ Cement	KUPO .	Set up			<del></del>	3	37.50	
rom Jele 2 Git to t.; Fro			1st2	U Shots			<u> </u>	130.00	
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etBridge	Plug at	ft.		Shots @		Ea.	•		
(TYPE)		,	Next			Ea.	•	_	
erforated with 3/2 5/1CK	Je+	as Follows:	LOGGING:		26. jr. @ \$	<u>03</u> ft.	•	78.78	
rom 2612 ft to	ft.,	Shots		g Chg. 26	V	62 ft.	3	570,00	
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	-1	-	Ī	Charge		,	<u></u>		
DIS COUNT					ft. @ \$	ft.	<u> </u>	<del></del>	
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1655 178 X X X X X X X X X X X X X X X X X X X		Additional Runs: No. Runs							
35 5 66		· · · · · · · · · · · · · · · · · · ·		ices (Specify)	<u> </u>		<del></del> _	<del></del> -	
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7' A.G.L.	CASING STR	14/14	2626	, e	2626	PLUID L	70	16	
1576/LARS 2553- 2	594	25/4	- 2553	- 2594		7772/	<u>س بن ال</u>	جرم لا	
ALES CREDIT TO: LIBORAL	10.264	6		·I certify tha	it the above ordered ion, that all zones h measurements ch	perforated wer	e desi		

Engineered Well Scrulces"

GENERAL OFFICES - FORT WORTH, TEXAS

## TREATMENT REPORT

Date 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	Field Receipt No. 6 6 2 7 7
Well Data	Treatment Data
Operator Mansas Nubraida	Volume and Type 10, ovo gal 3/2 acis
Lease Well No.	
Field Bradshaw	Amount Sand 4000 Size 20-4a
Location	Perforation SealersinStages
County Hamilton State Himsen	Misc. Mrls. 13 Co gal Raw acid 150 5-2 150 F
Formation Depth Depth	20th 8-12 Fd. B. 10 Ton Con
Stage No this section. Old New Well .	Pumping Eqpt. 1 F. m. 6 00
Depth: TD 1 26 26 PBTD	Tog Cap Csg. Cap63.73
Size Casing 5.5 Weight 14th Set 2121	
Size Liner Weight Set from to	Annular Cap. Open hole cap.
Size hole below	Fluid to load Trtg. Fluid 7440  Flush 64.0 Overflush
Casing Perforations w/holes per foot D. E. 24/2	Flush Overriush Overriush
	Total load to recoverType Flush
	Max. Press. 1300 Min. Press. 1800
Size Tubing Acres Tubing Perf.	Rate on Frac. 18.7 Flush 18.7 Avg. Rate 8.7
Type Packer Set at	ISDPFSIPinMin.
PRESSURE FLUID RATE TEG CSG PMPD BPM	
	PENABRET
	A down Stranger
10:23 900 10 Breakdown Congle	
12:25 0 Viens 6 bil air	noi production string
10:20 16 acidin.	
10:45 0 Stand Belled 3 % a	eid to break down
10:45 1000 Rolland Shus	1 down
10:5% 0 81 breakfour Comple	6 That down to rig Co.
11.00 0 Stand from I Can	
1200 Runge Sick squel.	
11:09 1100 25 3 18.7 3 rac in . Start.	Shills
11:11+ 1100 301 187 Shilling 5 las	Idlink
11.12 1300 371 18.7 Star a print	
11:15 1000 This in Shaldon	um to rig florie line
11:20 - will flowing tofil Del	Constit.
Previous Treatment	Operator Representative January Molecum
rule was	Western Engineer Courter
Production Prior to this treatment	Western District General Tither
7.000	
Operator Max. Trtg Pressure:	Test Western Connection to: 35 6 RECEIVED
REMARKS Foody bleat degrand atrin and 10 let al	4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
15 Percelaria sanderetti stalia Print dame 1 6	5 14/ 24/1 3/20 Exer
mater w/ 7000 gal d. 4000 \$ 20 -60, 2000 and 4 200 14 8	-12 St. de Strok 3 KOC MICHITA
4150 ml - 10+ 10+ (0+	NOU-WIGHTA