

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 -145-20,205 -0000

Company Renegade Resources Corp.		Lease Hawes B		Well Number 1	
County Pawnee	Location C-SW-SE	Section 29	TWP 23S	RNG (E/W) 16W	Acres Attributed 320
Field Carpenter		Reservoir Pennsylvanian Conglomerates	Gas Gathering Connection SEM Gas		
Completion Date 4/71		Pkg Back Total Depth 0	Packer Set at 4207		
Casing Size 5 1/2	Weight	Internal Diameter	Set at 4465	Perforations 4152-4156, 4162-4182	To
Tubing Size 2 3/8	Weight	Internal Diameter	Set at 4170	Perforations	To
Type Completion (Describe) Single (Gas + Oil)		Type Fluid Production Salt water		Pump Unit or Traveling Plunger? Yes / No Pumping unit	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	Gas Gravity - G _g
Vertical Depth(H)		Pressure Taps		(Meter Run) (Prover) Size	

Pressure Buildup: Shut in May 11 2015 at 4 (AM) (PM) Taken May 12 2015 at 4 (AM) (PM)
Well on Line: Started _____ 20__ at _____ (AM) (PM) Taken _____ 20__ at _____ (AM) (PM)

OBSERVED SURFACE DATA

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 _o)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _o)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						95					
Flow						45					

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 _v	Flowing Temperature Factor F _t	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

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

(P _o) ² - (P _w) ² or (P _o) ² - (P _a) ²	(P _o) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _a ² 2. P _o ² - P _a ² divided by: P _c ² - P _w ²	LOG of formula 1. or 2. and divide by: $\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2}$	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 13 day of May, 2015.

Witness (if any)

KCC WICHITA
Carl M. Welch
For Company

For Commission

MAY 15 2015

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5-15-15 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 Renegade Resources Corp. 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 Hawes 1-B 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: May 13, 2015

KCC WICHITA
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Signature: Carl M. Welch
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.

Renegade Resources Corp.

Gas Production Records -Hawes 1-B - Pawnee County, Kansas

Mcf per month

Year	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Jan										
Feb										
Mar										
Apr										
May										
Jun										
Jul										
Aug										
Sep										
Oct										
Nov										
Dec										
Total					6,119				8,213	6,907
Cumulative					47,306				83,906	90,813

Mcf per month

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Jan					94		13		152	152
Feb							28	29	155	152
Mar				266			57	48	165	162
Apr				242	12		3	240	202	134
May				275	42		7	149	232	114
Jun				174	21			160	216	133
Jul					29			152	232	138
Aug					44			177	200	145
Sep					14	48		161	130	86
Oct				3	44	20		163	99	104
Nov					8	36		158	81	125
Dec								175	204	150
Total	0	0	0	960	308	104	108	1,612	2,068	1,595
Cumulative	232,106	232,106	232,106	233,066	233,374	233,478	233,586	235,198	237,266	238,861

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1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
						920	169	200	457	638
						1,593	1,484	1,569	952	649
						181	1,279	344	848	672
						0	520	0	683	684
						0	0	1,017	441	767
						987	451	518	486	689
						0	397	1,018	669	591
						0	1,109	344	626	522
						575	542	968	216	487
						217	949	796	555	627
						973	0	581	541	187
						53	1,242	311	802	338
3,518	5,602	9,393	7,678	4,678	6,312	5,499	8,142	7,666	7,276	6,851
94,331	99,933	109,326	117,004	121,682	127,994	133,493	141,635	149,301	156,577	163,428

2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
145										
136										
149										

430	0	0	0	0	0	0	0	0	0	0
239,291	239,291	239,291	239,291	239,291	239,291	239,291	239,291	239,291	239,291	239,291

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1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
175	174	590.06	585.19	466.25	540.00	369.00	438.00	475.00	434.15	405.00
128	830	504.23	509.37	547.85	552.00	386.00	434.00	439.00	353.60	343.00
641	726	580.14	531.88	524.00	575.00	523.00	595.00	494.00	440.54	453.00
964	745	512.15	155.74	305.88	543.00	575.00	518.00	465.00	457.71	454.00
283	712	474.74	70.35	215.32	525.00	547.00	482.00	406.00	400.73	323.00
382	620	547.75	722.31	461.13	494.00	547.00	458.00	309.00	322.26	429.00
941	565	261.26	792.66	437.10	491.00	556.00	438.00	263.00	39.89	429.00
784	589	441.00	581.64	344.69	502.00	563.00	442.00	522.00	195.16	372.00
637	600	647.01	589.13	438.04	460.00	526.00	487.00	382.62	392.17	411.00
831	590	603.95	543.40	274.00	535.00	527.00	474.00	469.15	420.07	313.00
394	543	544.93	606.94	189.00	494.00	449.00	475.00	450.24	295.30	417.00
265	576	615.17	585.40	498.00	404.00	448.00	453.00	456.65	411.52	149.00
6,425	7,270	6322.39	6274.01	4701.26	6115.00	6016.00	5694.00	5131.66	4163.10	4498.00
169,853	177,123	183,445	189,719	194,421	200,536	206,552	212,246	217,377	221,540	226,038

2026 2027 2028 2029 2030 Year

Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec

0 0 0 0 0 Total
239,291 239,291 239,291 239,291 239,291 Cumulative

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2003	2004	Year
426.00	377	Jan
415.00		Feb
492.00	105	Mar
519.00		Apr
514.00	94	May
444.00		Jun
423.00		Jul
397.00		Aug
504.00		Sep
486.00		Oct
414.00		Nov
458.00		Dec
5492.00	576.00	Total
231,530	232,106	

Note: Jan and May 2004 production not paid for.

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