KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:				(See Instruc	tions on Re	everse Side))				
✓ Open Flow Test Date:						ADI NO 15							
h Dathana Lillea					Test Date: API No. 1 11/21/2007 181-204				No. 15 1-20402-00	.00			
Company		esou	rces		, , , , , , , , , , , , , , , , , , , ,		Lease Trach	sel		- 12 - 14			umber
County Location Sherman NWNE				Section 13			TWP 7S		/W)	Acres Attributed 80		Attributed	
Field Goodland				Reservoi Niobrara		Gas Gathering Co Branch Systems			-				
Completi 2/24/20		te			Plug Bac 1145'	k Total Dep	h Packer Set at			Set at			
Casing S 2 7/8"	Casing Size Weight 2.7/8" 6.5#			Internal Diameter 2.441		Set at 1146'		Perforations 996'		то 1028'			
Tubing S	ize		Weigh		Internal I	Diameter	Set at Perfor			rations	То		
Type Cor Single				*****************	Type Flui Dry Ga	d Productio	n	reconstitute dans err erribatelitä tiit tiit tiit tiit	Pump Ui Flowir	nit or Traveling	Plunger? Yes	/ No	***************************************
Producing	_	(An	nulus / Tubing)	% C	Carbon Diox	ide		% Nitrog	en	Gas Gr	avity -	G_g
Vertical D	Depth(i	H)				Pres Flan	ssure Taps				(Meter	Run) (I	Prover) Size
Pressure	Builda	ın.	Shut in		O at			Taken		20	at		(AM) (PM)
Well on L		•	Started 11-2		0 06 at 8						06 at 10:00		
						OBSERVE	D SURFAC	E DATA			Duration of Shut-	in 24	Hours
Static / Dynamic Property	c / Oritice Meter		Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Well Head Temperature t		Casing Wellhead Pressure (P_w) or (P_t) or (P_c) psig psia		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		· ·		ild Produced (Barrels)
Shut-In			, , ,				59	73.4					
Flow							52				24 0		
					1	FLOW STE	REAM ATTI	RIBUTES	. }				T
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension P _m x h	Gravity Factor F _a		Flowing Temperature Factor F _{II}	Deviation Factor F _{pv}		Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m
							!			9			
					(OPEN FL	OW) (DELIV	/ERABILITY	Y) CALCUL	ATIONS	-	(P.)	² = 0.	207
(P ₀) ² =		:	(P _w) ² =	:	P _d =		% (P _o - 14.4) +	14.4 =			² =	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(F	P _c) ² - (P _w) ²	Choose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ (ivided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide p 2 p 2		Backpressure Curve Slope = "n" or Assigned Standard Slope		n x LOG		Antilog Deli Equals		pen Flow liverability s R x Antilog (Mcfd)
Open Flo				Mcfd @ 14.	65 psia		Delivera	bility			Mcfd @ 14.65 ps	ia	
· · · · · · · · · · · · · · · · · · ·		iona	1 authority c		•	tatac that b			o maka M		rt and that he ha		uladas si
				d report is true					day of		nt and that he ha	,	20 <u>97</u>
Marrier (M. S. e. S. e.	NV		Witness (If	any)	**************************************	e e e e e e e e e e e e e e e e e e e			///	m M	ompany	el,	10
***************************************			For Commi	ssion			ECEN <i>A</i>			Chec	ked by		<u> </u>

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exempt status under Rule K.A.R. 82-3-304 on behavior and that the foregoing pressure information and correct to the best of my knowledge and belief bases.	statements contained on this application form are true and sed upon available production summaries and lease records eletion or upon use being made of the gas well herein named.							
gas well on the grounds that said well:								
(Check one)								
is a coalbed methane producer	, ¹							
is cycled on plunger lift due to	is cycled on plunger lift due to water is a source of natural gas for injection into an oil reservoir undergoing ER							
is a source of natural gas for in								
is on vacuum at the present tim	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 abil staff as necessary to corroborate this claim for ex	ity any and all supporting documents deemed by Commission temption from testing.							
Date: 1/20/2007								
Signatu	re: Jam W Roels							
	tle: Production Foreman							
•••								
	•							

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 the reafter 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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CONSERVATION DIVISION WICHITA, KS

Well Name: Trachsel: 21-13

Totals

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FEB 0 2 2007

CONSERVATION DIVISION WICHINA, KS

Well Name: Trachsel 21-13

C11.

umper.	-							-
-:							SPM	
Day S	tatic	Diff	MCF	Wtr	TP	СР	Cycle	Remarks
	5		9			52		
	,5		q			92		
3 /	0.5		9	ļ. <u>.</u>		52		Ina Class
4	05		1 1		 	52		no flow
	65		9		·	5		924
6 6	24		10	ļ <u> </u>	 	5/		
7 (63	<u> </u>	19		 	50		
8 (03		1-7			51		
9	<u> </u>		13		 	51		
10	64		13		- 	50		
11	63	<u> </u>	13	 	-	50		
1 .	63	<u> </u>	1-4		+	50		BP
13	63	 -	1./	 	+	50		
14	63		9	-		49		
15	63 62	-	10	+	-	49	1	
16	60	 	9	-		49		
17	62		10			49		
18		+	9			49	1	BP
19	62	 	9			49		
20	62	-	10			49		
21	62		1			49		
23	102		7			149		
24	62	_	17			49		
25	102		19		·	149		
26	60		9			44		
27	61		9			48	,	BP
28	61		8			48	2	150
29	COT		8			142		
30	60		8			1,4		
31	600		8	!		14	/	
		Tot	als					RECEIVED KANSAS CORPORATION COM

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CONSERVATION DIVISION WICHITA, KS

Monthly Gauge Sheet

Well Name: Trachsul 21-13

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