

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow
 Deliverability

Test Date:
1/31 to 2/01/11

API No. 15
007-23590-00-00

Company Lotus Operating		Lease Rose		Well Number 2	
County Barber	Location 495FEL & 495FSL	Section 25	TWP 34S	RNG (E/W) 12W	Acres Attributed
Field Misener Sand		Reservoir Misener Sand		Gas Gathering Connection Oneok	
Completion Date 10/12/10		Plug Back Total Depth 5157		Packer Set at none	
Casing Size 5.5	Weight	Internal Diameter	Set at 5201	Perforations 5061	To 5064
Tubing Size 2.875	Weight	Internal Diameter	Set at 5060	Perforations	To
Type Completion (Describe) single		Type Fluid Production Oil		Pump Unit or Traveling Plunger? Yes / No no	
Producing Thru (Annulus / Tubing) tubing		% Carbon Dioxide .041		% Nitrogen 6.833	
Vertical Depth(H)		Pressure Taps flange		(Meter Run) (Prover) Size 3"	
Pressure Buildup: Shut in 01/28 20 11 at 9:00 am (AM) (PM) Taken 01/31 20 11 at 9:00 am (AM) (PM)					
Well on Line: Started 01/31 20 11 at 10:00 am (AM) (PM) Taken 02/01 20 11 at 10:00 am (AM) (PM)					

OBSERVED SURFACE DATA

Duration of Shut-in **72** Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter 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 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						584	598.4	576	590.4	72	
Flow	1.500	98	1.2	4		531	545.4	520	534.4	24	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _p) (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 _t	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
11.41	112.4	11.61	1.189	1.059		167		.707

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_e)² = **358.082** ; (P_w)² = **297.461** ; P_d = _____ % (P_c - 14.4) + 14.4 = _____ ; (P_w)² = **0.207**
(P_e)² = _____ ; (P_d)² = _____

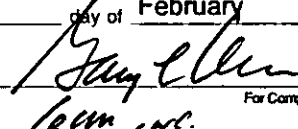
(P _e) ² - (P _w) ² or (P _e) ² - (P _d) ²	(P _e) ² - (P _w) ²	Choose formula 1 or 2: 1. P _e ² - P _w ² 2. P _e ² - P _d ² divided by: P _e ² - P _w ²	LOG of formula 1. or 2. and divide by: $P_c^2 - P_w^2$	Backpressure Curve Slope = "n" or Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
357.875	60.621	5.903	.7711	.748	.5768	3.77	630

Open Flow **630** Mcfd @ 14.65 psia X .50 = Deliverability **315** 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 **1st** day of **February**, 20 **11**.

Witness (if any)

For Commission



For Company
Checked by

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KCC WICHITA

STATE OF KANSAS - CORPORATION COMMISSION
MULTIPOINT BACK PRESSURE TEST

FORM CG-1 Rev.

TYPE TEST: Initial Annual Special TEST DATE: 1/31/11

COMPANY: Lotus Operating LEASE: Rose WELL NO.: 2

COUNTY: Barber LOCATION: 495 FSL. & 495 FSL. SECTION: 25 TWP: 34S RNG (E/W): 12W ACRES: 2

API WELL NUMBER: 15-007-23590-00-00 RESERVOIR: Misener Sand PIPELINE CONNECTION: Oneok

COMPLETION DATE: 10/12/10 PLUG BACK TOTAL DEPTH: 5157 PACKER SET AT: none

CASING SIZE: 5.5 WT. ID. SET AT: 5201 PERF. TO: 5064

TUBING SIZE: 2.875 WT. ID. SET AT: 5060 PERF. TO: 5064

TYPE COMPLETION (Describe): single TYPE FLUID PRODUCTION: Oil

PRODUCING THRU: Tubing RESERVOIR TEMPERATURE °F: BAR PRESS - P_s: 14.4 Psia

GAS GRAVITY - G_s: .707 % CARBON DIOXIDE: .041 % NITROGEN: 6.833 API GRAVITY OF LIQUID: (METER RUN) (PROVER) SIZE: 3"

VERTICAL DEPTH (H): TYPE METER CONNECTION: flange

REMARKS: Tested into Oneok pipeline (EFM)

OBSERVED DATA										DURATION OF SHUT-IN 72 HR.	
RATE NO.	ORIFICE SIZE in.	(METER) (PROVER) PRESSURE Psig	DIFF. (h _w) (h _s)	FLOWING TEMP t	WELL-HEAD TEMP. t	CSG WELLHEAD PRESS. Psig (P _w)(P _s)(P _e) Psia		TBG WELLHEAD PRESS. Psig (P _w)(P _s)(P _e) Psia		FLOW DURATION (HOURS)	LIQUID PROD. Bbls.
SHUT IN						584	598.4	576	590.4	72	
1	1.500	98	.5	26		558	572.4	548	562.4	.75	0
2	"	100	1.4	32		530	544.4	520	534.4	.75	0
3	"	102	2.6	34		500	514.4	488	502.4	.75	0
4	"	103	4.1	35		467	481.4	453	467.4	.75	0

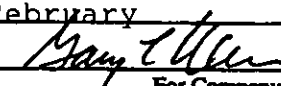
RATE OF FLOW CALCULATIONS									
RATE NO.	COEFFICIENT (F ₁)(F ₂) Mcfd	(METER) (PROVER) PRESSURE Psia	PRESS EXTENSION $\sqrt{P_w \cdot h_w}$	GRAVITY FACTOR F _g	FLOWING TEMP FACTOR F _t	DEVIATION FACTOR F _d	RATE OF FLOW Q Mcfd	GOR (ft ³ /Bbl)	G _s
1	11.412	112.4	7.50	1.189	1.034	---	105		
2	"	114.4	12.65	"	1.028	---	176		
3	"	116.4	17.39	"	1.026	---	242		
4	"	117.4	21.94	"	1.025	---	305		

PRESSURE CALCULATIONS									
RATE NO.	P _i Psia	P _e Psia	P _w Psia	(P _s) ² THOUSANDS	(P _e) ² THOUSANDS	PLOTTING POINTS		% SHUT-IN (P _e - P _s) / (P _e - P _i)	
						(P _s) ² - (P _e) ² THOUSANDS	Q Mcfd		
1	562.4	598.4	572.4	358.1	327.6	30.5	105	95.6	
2	534.4	"	544.4	"	296.4	61.7	176	90.9	
3	502.4	"	514.4	"	264.6	93.5	242	85.9	
4	467.4	"	481.4	"	231.7	126.4	305	80.4	

INDICATED WELLHEAD OPEN FLOW 650 Mcfd @ 14.65 Psia "r" = .748

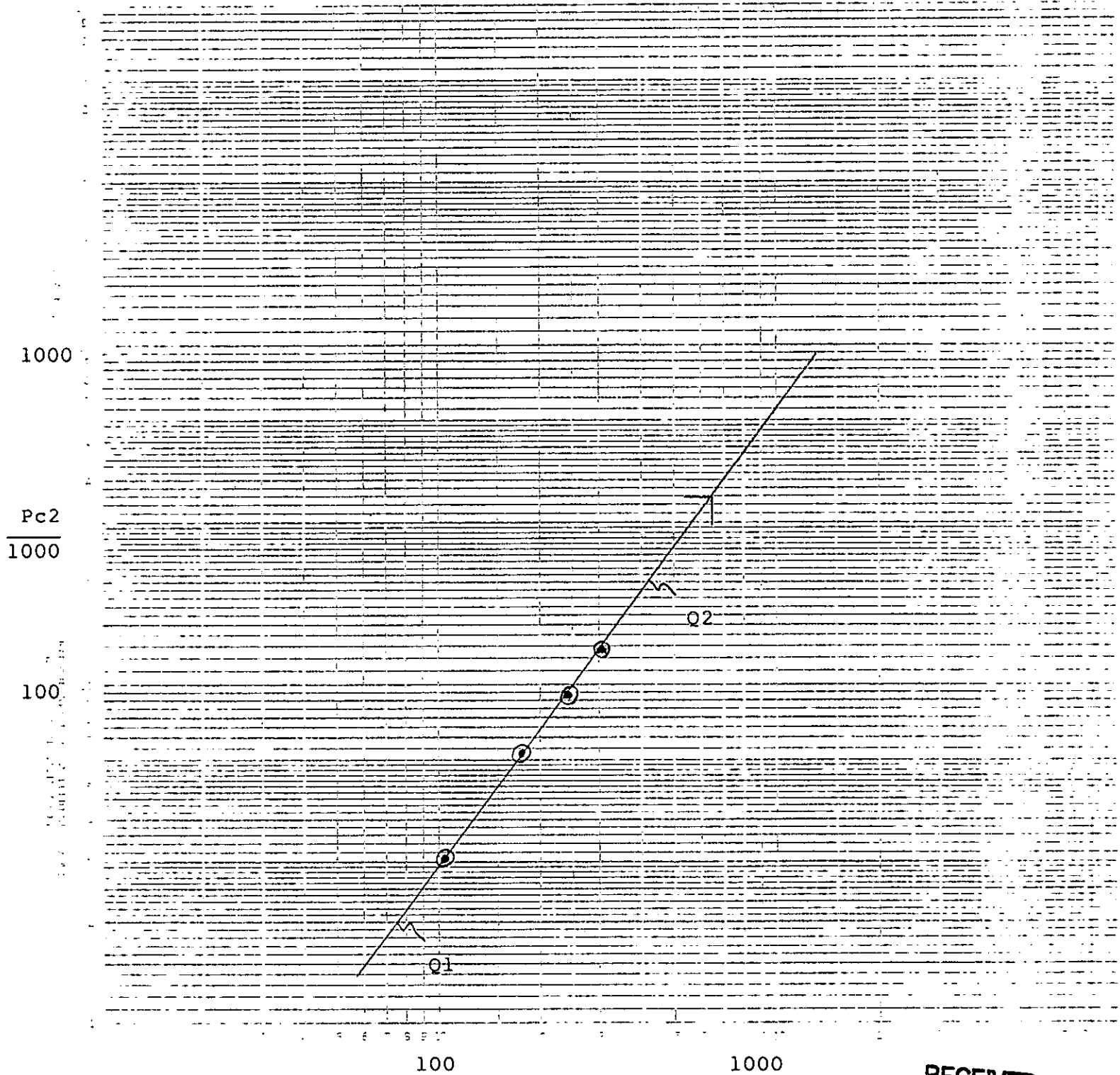
The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated herein, and that said report is true and correct. Executed this the 1st day of February, 2011.

Witness (if any) _____
For Commission _____


 For Company
 CCM, Inc.
 Checked By _____ (Rev.10/96)

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Lotus Operating - Rose #2
 495 FEL & 495 FSL 25-34S-12W
 Barber County
 Tested 1/31/11



Q2 - 420 - Log: 2.623
 Q1 - 75 - Log: 1.875

"n" = .748

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Daily Meter Analysis Summary

460050 - ROSE #2

December 2010

Pressure Base: 14.65 Atmos Pressure: 14.40 Pressure: 127.2
Temp Base: 60.00 Contract Day: 1 Temperature: 44.3
Contract Hour: 7

Day	Relative Density	Dry Heating Value	Wet Heating Value	As Del Heating Value	CO2	N2	C1	C2	C3	iC4	nC4	iC5	nC5	C6	C7	C8	C9	C10	HCDP	CCT	Wobbe
1	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
2	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
3	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
4	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
5	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
6	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
7	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
8	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
9	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
10	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
11	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
12	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
13	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
14	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
15	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
16	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
17	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
18	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
19	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
20	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
21	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
22	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
23	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
24	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
25	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
26	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
27	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
28	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
29	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
30	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
31	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			
Avg	0.7070	1126.89	1107.17		0.041	6.833	79.351	6.415	4.321	0.369	1.422	0.253	0.426	0.413	0.000	0.000	0.000	0.000			

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FIELD DATA SHEET

Pumper: _____

Phone#: _____

 Type Test: Initial Annual Special Test Date: 1/21/11

 Company: LOTUS OPR Connection: ONEOK (46050)

Field: _____ Reservoir: _____ Location: _____

 Completion Date: _____ Total Depth: _____ Plug Back TD: _____ Elevation: _____ Farm or Lease Name: ROSE

 Csg. Size: _____ Wt.: _____ d: _____ Set At: _____ Perforations: From _____ To _____ Well No.: 2

Tbg. Size: _____ Wt.: _____ d: _____ Set At: _____ Perforations: From _____ To _____ Sec.: _____ Twp - Blk: _____ Rge - Sqr: _____

 Type Completion (Describe): SINGLE Packer Set At: NONE County or Parish: BANDER

 Producing Thru: TBG Reservoir Temp. F: _____ Mean Annual Temp. F: 60 Doro. Press. - P: 14.4 State: KS

 G_o: _____ % CO₂: _____ % N₂: _____ % H₂S: _____ Prover: _____ Motor Run: _____ Taps: FLG

DATE	ELAP. TIME	WELLHEAD WORKING PRESSURE			METER OR PROVER				REMARKS
		Tbg. Psig	Csg. Psig	Δ P	Pressure Psig	Diff.	Temp. F	Orifices	
9:00	72	576	584						LIT LINE HEATER (NO CHOKER - FEEL CONTROL WITH BALL VALVES)
10:00								1.500	COMMENCE TEST
:15		561	570						WELL IS .5 MILE ± FROM ONEOK METER
:30		551	561						
:45		548	558		98	.5	26		
:00		536	546						
:15		525	536						
:30		520	530		100	1.4	32		
:45		516	518						2.5 970 569
:00		497	509						5.0 976 555
:15		488	500		102	2.6	34		7.5 976 540
:30		473	486						10.0 970 526
:45		461	475						12.5 970 511
1:00		453	467		103	4.1	35		15.0 970 496
									17.5 970 482
									20.0 970 467
									25.0 970 438
1:15		519	529		102	1.2	34		SET RATE FOR 1 PT TEST (170 wells ±)
10:00		520	531		98	1.2	4		1 PT TEST 2/1/11
	0.0								Begin 30 minute wellhead buildup
	0.5								
	1.0								
	1.5								
	2.0								
	3.0								
	4.0								
	5.0								
	6.0								
	7.0								
	8.0								
	9.0								
	10.0								
	15.0								
	20.0								
	25.0								
	30.0								

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