

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow 24hr. S.I.
 Deliverability

Test Date: 2-13-04

API No. 15 -023-20545-0000

Company <u>Rosewood Resources</u>		Lease <u>MOORE</u>		Well Number <u>1-16</u>	
County <u>Cheyenne</u>	Location <u>16</u>	TWP <u>2 S</u>	RNG (E/W) <u>42 W</u>	Acres Attributed <u>80</u>	
Field <u>Cherry Creek</u>		Reservoir <u>NIOBRARA</u>	Gas Gathering Connection <u>BSI (WOPL)</u>		
Completion Date <u>1-30-04</u>		Plug Back Total Depth <u>1868</u>	Packer Set at		
Casing Size <u>4.5"</u>	Weight <u>10.5#</u>	Internal Diameter <u>4.052</u>	Set at <u>1871</u>	Perforations <u>1665</u>	To <u>1689</u>
Tubing Size <u>None</u>	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe) <u>SINGLE (Vertical)</u>		Type Fluid Production <u>Gas</u>	Pump Unit or Traveling Plunger? Yes / <input checked="" type="checkbox"/> No		
Producing Thru (Annulus / Tubing) <u>Annulus</u>		% Carbon Dioxide <u>1.0</u>	% Nitrogen <u>18.0</u>	Gas Gravity - G _g <u>0.64</u>	
Vertical Depth (H) <u>1689</u>		Pressure Taps <u>FLANGE</u>	(Meter Run) (Prover) Size <u>2"</u>		
Pressure Buildup:	Shut in <u>2-6</u> 20 <u>04</u> at <u>7</u> (AM) (PM)	Taken <u>2-13</u> 20 <u>04</u> at <u>7</u> (AM) (PM)			
Well on Line:	Started _____ 20__ at _____ (AM) (PM)	Taken _____ 20__ at _____ (AM) (PM)			

OBSERVED SURFACE DATA

Duration of Shut-in 168 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 _i) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In				<u>98</u>	<u>62</u>	<u>166</u>	<u>180.4</u>	<u>324</u>	<u>338.4</u>		
Flow											

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FLOW STREAM ATTRIBUTES

Plate Coefficient (F _a) (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

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_a)² = 0.207

(P_d)² = _____

(P_c)² = _____ : (P_w)² = _____ : P_d = _____ % (P_c - 14.4) + 14.4 = _____ :

(P _c) ² - (P _a) ² or (P _c) ² - (P _d) ²	(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 divided by: P _c ² - P _w ²	LOG of formula 1. or 2. and divide by: $\left[\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2} \right]$	Backpressure Curve Slope = "n" or Assigned Standard Slope	n x LOG $\left[\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2} \right]$	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 15 day of January, 2004.

Witness (if any)

For Company

For Commission

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 Rosewood Resources 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 MOORE 1-16 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: 1/15/05

Signature: Dennis Hand

Title: Reservoir 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.

MIKE KERKER
President



Telephones
970-522-4761 — 522-4764

PRODUCTION ENGINEERING

440 - 442 SOUTH FRONT STREET
BOX 590
STERLING, COLORADO 80751

Company: Rosewood Resources, Inc.
Well: Moore #1-16
Field: Wildcat

County: Cheyenne
State: Kansas

Engineer:
Gauge Type: Silicon Crystal
Serial No.: 5351
Gauge Range: 1000
Gauge Depth: 1621 ft

Date: 02/13/2004

Well Type: Gas Production
Test Type: Gradient BHP
Well Status: Shut In

Tubing: TO
Tubing: TO
Casing: TO
Perfs.: 1655' - 1689'
Perfs.:
Elevation:

PBTD 1871 ft
Oil Level None
H2O Level 1265 ft

Zero: Master Valve

Shut-in BHP 324 @ 1621 ft Shut-in BHT 98 F @ 1621 ft
Shut-in WHP 166 Shut-in WHT 62 F
Casing CSGP 166

[GRADIENT DATA]

#	MD	TVD	PRESSURE	PSI/ft
1	0	0	166.17	
2	250	250	166.85	0.003
3	500	500	168.01	0.005
4	750	750	169.15	0.005
5	1000	1000	170.15	0.004
6	1250	1250	171.16	0.004
7	1500	1500	272.27	0.404
8	1621	1621	324.37	0.431

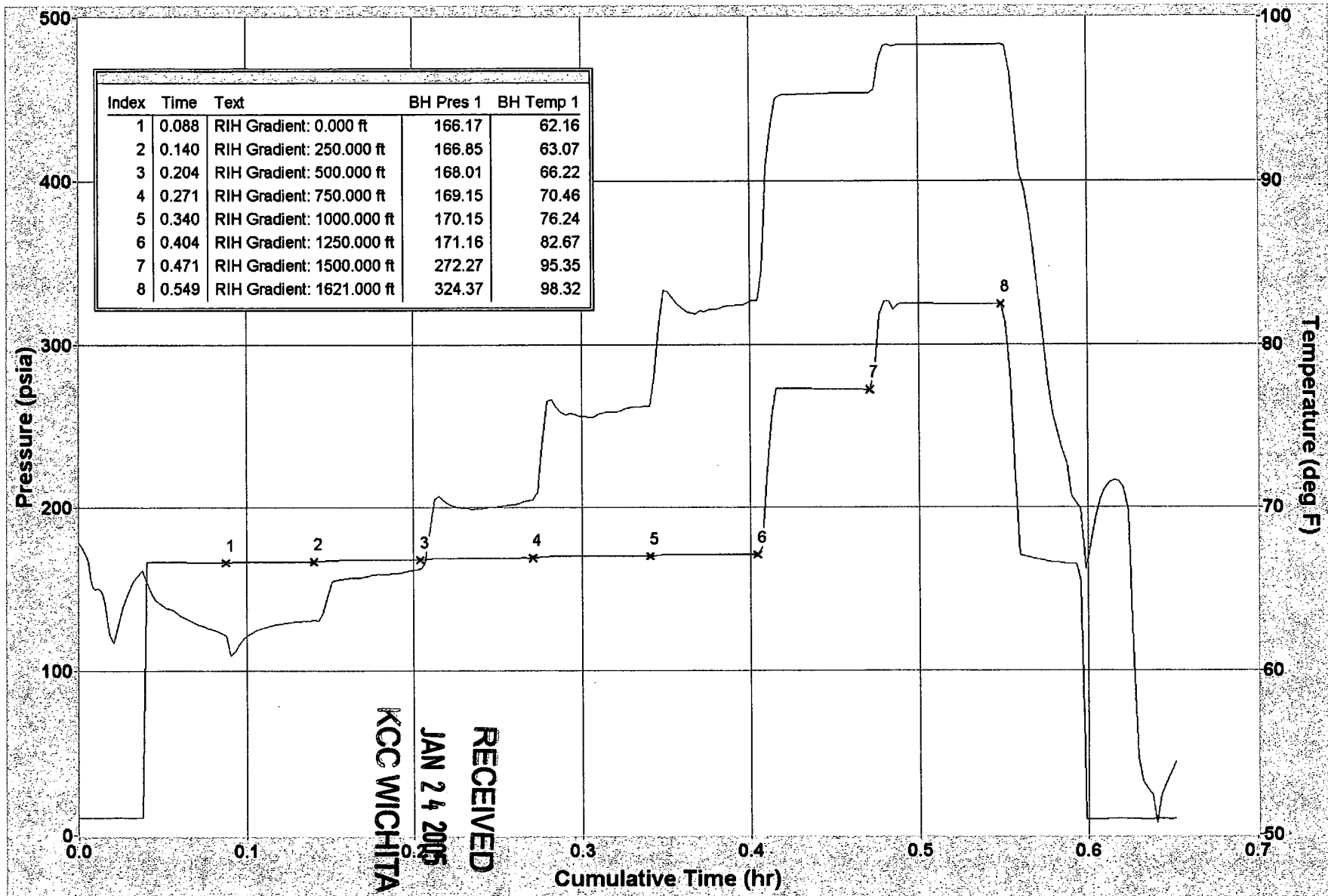
Remarks: File Name: MOORE116.*
Bomb On Bottom: 12:41 - 12:44
WLTD @ 1621' MV

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Company Name Rosewood Resources, Inc.
 Well Name Moore #1-16
 Type of Test Gradient BHP
 Date(s) of Test February 13, 2004



Moore #1-16



Actual
MOORE 01-16

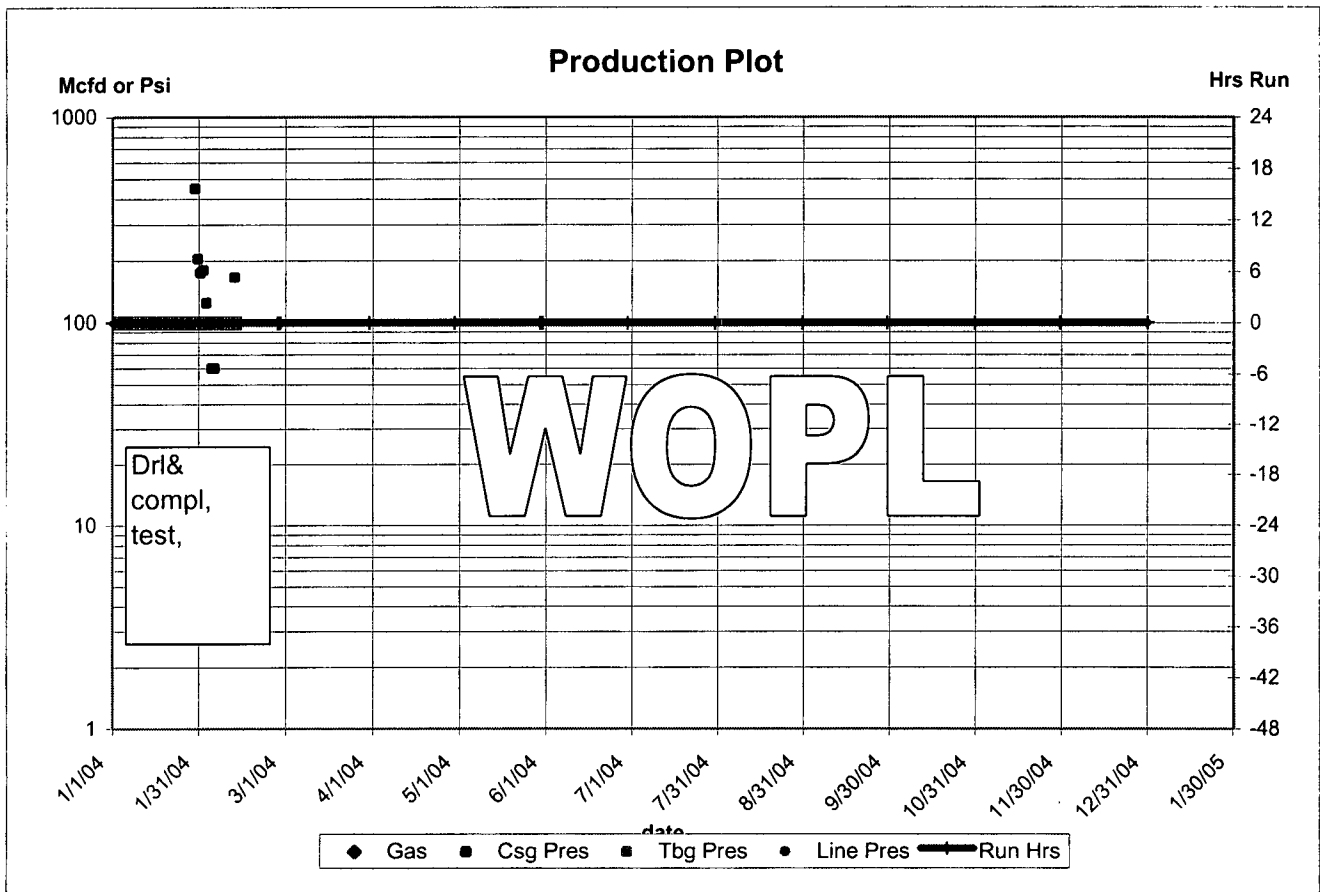
	<u>Gas</u>	<u>Csg Press</u>	<u>Tbg Press</u>	<u>Line Press</u>	<u>Hrs</u>	<u>remarks</u>
2004/01	null	null	null	null	null	(1.)
2004/02	0	null	null	null	0.0	(2.) SI on 2/13/04
2004/03	0	null	null	null	0.0	SI = 1296 hrs. WOPL dys: 60
2004/04	0	null	null	null	0.0	SI = 2016 hrs. WOPL dys: 90
2004/05	0	null	null	null	0.0	SI = 2736 hrs. WOPL dys: 120
2004/06	0	null	null	null	0.0	SI = 2760 hrs. WOPL dys: 120
2004/07	0	null	null	null	0.0	SI = 3480 hrs. WOPL dys: 150
2004/08	0	null	null	null	0.0	SI = 4224 hrs. WOPL dys: 180
2004/09	0	null	null	null	0.0	SI = 4968 hrs. WOPL dys: 210
2004/10	null	null	null	null	null	SI = 5688 hrs. WOPL dys: 240
2004/11	null	null	null	null	null	SI = 6432 hrs. WOPL dys: 270
2004/12	null	null	null	null	null	SI = 7152 hrs. WOPL dys: 300

TOTAL

- (1.) Spud, TD 1885' Csg 1871' Set Csg 1871// TOC 1140' PBDT 1868 Perf 1655-1689 spf2 // N2Frac
- (2.) Flow Tests on variable choke. // BHP,BHT Gradient run. 34' sand over top perf. SCIP=166#, 68°F BHP 324#, 98°F // Shut In. WOPL

Current Status: SI = 8304 hrs. WOPL dys: 347

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Actual					
Stasser,D 01-04					
Gas	Csg Press	Tbg Press	Line Press	Hrs	
01/01/2004	null	null	null	null	Spud 3:00pm Set Surf Csg 291 & WOC
01/02/2004	null	null	null	null	TD 1885 set 4.5" 10.5# Prd Csg @ 1871
01/03/2004	null	null	null	null	WOC. RR. RDMO. & WOCU
01/04/2004	null	null	null	null	WOCU day 1
01/05/2004	null	null	null	null	WOCU day 2
01/06/2004	null	null	null	null	WOCU day 3
01/07/2004	null	null	null	null	WOCU day 4
01/08/2004	null	null	null	null	WOCU day 5
01/09/2004	null	null	null	null	WOCU day 6
01/10/2004	null	null	null	null	WOCU day 7
01/11/2004	null	null	null	null	WOCU day 8
01/12/2004	null	null	null	null	WOCU day 9
01/13/2004	null	null	null	null	WOCU day 10
01/14/2004	null	null	null	null	WOCU day 11
01/15/2004	null	null	null	null	WOCU day 12
01/16/2004	null	null	null	null	WOCU day 13
01/17/2004	null	null	null	null	WOCU day 14
01/18/2004	null	null	null	null	WOCU day 15
01/19/2004	null	null	null	null	WOCU day 16
01/20/2004	null	null	null	null	WOCU day 17
01/21/2004	null	null	null	null	WOCU day 18
01/22/2004	null	null	null	null	WOCU day 19
01/23/2004	null	null	null	null	WOCU day 20
01/24/2004	null	null	null	null	WOCU day 21
01/25/2004	null	null	null	null	WOCU day 22
01/26/2004	null	null	null	null	WOCU day 23
01/27/2004	null	null	null	null	WOCU day 24
01/28/2004	null	null	null	null	WOCU day 25
01/29/2004	null	null	null	null	TOC 1140 PBDT 1868 Perf 1655-1689 spf2
01/30/2004	null	450	null	null	N2FRAC 100k# SICP 2.5hr & Flo to Pit 14/64"
01/31/2004	null	205	null	null	FCP 14/64 chk. HMist & SOLW
02/01/2004	0	175	null	null	0 FCP 14/64 chk. HMist & SOW
02/02/2004	0	180	null	null	0 FCP 14/64 chk. HMist & SOW
02/03/2004	0	125	null	null	0 FCP 22/64 chk. HMist & SOW
02/04/2004	0	100	null	null	0 FCP 22/64 chk. HMist & SOW
02/05/2004	0	60	null	null	0 FCP 22/64 chk LMist & SOW
02/06/2004	0	60	null	null	0 FCP 28/64 chk HMist & SOW. Shut In.
02/07/2004	0 null	null	null	null	0 SI = 24 hrs. WOPL dys: 7
02/08/2004	0 null	null	null	null	0 SI = 48 hrs. WOPL dys: 8
02/09/2004	0 null	null	null	null	0 SI = 72 hrs. WOPL dys: 9
02/10/2004	0 null	null	null	null	0 SI = 96 hrs. WOPL dys: 10
02/11/2004	0 null	null	null	null	0 SI = 120 hrs. WOPL dys: 11
02/12/2004	0 null	null	null	null	0 SI = 144 hrs. WOPL dys: 12
02/13/2004	0	166	null	null	0 P,T Gradient BHP 324,98°, WHT 62°,
02/14/2004	0 null	null	null	null	0 (cont.)Tag FL@1250', 34' sand over perfs
02/15/2004	0 null	null	null	null	0 SI = 216 hrs. WOPL dys: 15
02/28/2004	0 null	null	null	null	0 SI = 528 hrs. WOPL dys: 28
02/29/2004	0 null	null	null	null	0 SI = 552 hrs. WOPL dys: 29
03/31/2004	0 null	null	null	null	0 SI = 1296 hrs. WOPL dys: 60
04/30/2004	0 null	null	null	null	0 SI = 2016 hrs. WOPL dys: 90
05/30/2004	0 null	null	null	null	0 SI = 2736 hrs. WOPL dys: 120
05/31/2004	0 null	null	null	null	0 SI = 2760 hrs. WOPL dys: 120
06/30/2004	0 null	null	null	null	0 SI = 3480 hrs. WOPL dys: 150
07/31/2004	0 null	null	null	null	0 SI = 4224 hrs. WOPL dys: 180
08/31/2004	0 null	null	null	null	0 SI = 4968 hrs. WOPL dys: 210
09/30/2004	null	null	null	null	SI = 5688 hrs. WOPL dys: 240
10/31/2004	null	null	null	null	SI = 6432 hrs. WOPL dys: 270
11/30/2004	null	null	null	null	SI = 7152 hrs. WOPL dys: 300
12/31/2004	null	null	null	null	SI = 7896 hrs. WOPL dys: 330
2004	0 null	null	null	null	

Current Status: SI = 8304 hrs. WOPL dys: 347

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