

Company Reach Petroleum Corporation Lease & Well No. Wright #1
Elevation - Formation Mississippian Effective Pay - Ft. Ticket No. 14894
Date 6/28/81 Sec. 33 Twp. 29S Range 13W County Pratt State Kansas
Test Approved by Vernon C Schrag Western Representative Les Holtz

Formation Test No. 2 Interval Tested from 4437 ft. to 4454 ft. Total Depth 4454 ft.

Packer Depth 4432 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 4437 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4447 ft. Recorder Number 1051 Cap. 4250

Bottom Recorder Depth (Outside) 4450 ft. Recorder Number 13267 Cap. 4050

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Reach Drilling Co. Rig #1 Drill Collar Length 250 I. D. 2.26 in.

Mud Type Starch Viscosity 46 Weight Pipe Length - I. D. - in.

Weight 9.8 Water Loss 9.6 cc. Drill Pipe Length 4165 I. D. 3.8 in.

Chlorides 42,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 in.

Jars: Make No Serial Number - Anchor Length 17 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Blow: Weak steadily increasing throughout initial flow period. Weak steady throughout final flow period.

Recovered 60 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Read outside recorder

Time Set Packer(s) 4:30 ~~A.M.~~ P.M. Time Started Off Bottom 7:30 ~~A.M.~~ P.M. Maximum Temperature 124

Initial Hydrostatic Pressure (A) 2388 P.S.I.

Initial Flow Period 30 Minutes (B) 43 P.S.I. to (C) 43 P.S.I.

Initial Closed In Period 60 Minutes (D) 59 P.S.I.

Final Flow Period 30 Minutes (E) 45 P.S.I. to (F) 45 P.S.I.

Final Closed In Period 54 Minutes (G) 63 P.S.I.

Final Hydrostatic Pressure (H) 2348 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 6/28/81 Recorder No. 13267 Capacity 4050 Test Ticket No. 14894
 Location 4450 Ft. Clock No. - Elevation - Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2388</u>	P.S.I.	<u>4:30P</u>	<u>M</u>
B First Initial Flow Pressure	<u>43</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
C First Final Flow Pressure	<u>43</u>	P.S.I.	<u>60</u>	<u>Mins.</u>
D Initial Closed-in Pressure	<u>59</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
E Second Initial Flow Pressure	<u>45</u>	P.S.I.	<u>60</u>	<u>Mins.</u>
F Second Final Flow Pressure	<u>45</u>	P.S.I.		
G Final Closed-in Pressure	<u>63</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2348</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>18</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>43</u>	<u>0</u>	<u>43</u>	<u>0</u>	<u>45</u>	<u>0</u>	<u>45</u>
P 2 <u>5</u>	<u>43</u>	<u>3</u>	<u>43</u>	<u>5</u>	<u>45</u>	<u>3</u>	<u>45</u>
P 3 <u>10</u>	<u>43</u>	<u>6</u>	<u>43</u>	<u>10</u>	<u>45</u>	<u>6</u>	<u>45</u>
P 4 <u>15</u>	<u>43</u>	<u>9</u>	<u>43</u>	<u>15</u>	<u>45</u>	<u>9</u>	<u>45</u>
P 5 <u>20</u>	<u>43</u>	<u>12</u>	<u>43</u>	<u>20</u>	<u>45</u>	<u>12</u>	<u>47</u>
P 6 <u>25</u>	<u>43</u>	<u>15</u>	<u>43</u>	<u>25</u>	<u>45</u>	<u>15</u>	<u>48</u>
P 7 <u>30</u>	<u>43</u>	<u>18</u>	<u>43</u>	<u>30</u>	<u>45</u>	<u>18</u>	<u>49</u>
P 8		<u>21</u>	<u>43</u>			<u>21</u>	<u>50</u>
P 9		<u>24</u>	<u>44</u>			<u>24</u>	<u>51</u>
P10		<u>27</u>	<u>45</u>			<u>27</u>	<u>52</u>
P11		<u>30</u>	<u>46</u>			<u>30</u>	<u>53</u>
P12		<u>33</u>	<u>47</u>			<u>33</u>	<u>55</u>
P13		<u>36</u>	<u>48</u>			<u>36</u>	<u>57</u>
P14		<u>39</u>	<u>49</u>			<u>39</u>	<u>58</u>
P15		<u>42</u>	<u>50</u>			<u>42</u>	<u>59</u>
P16		<u>45</u>	<u>51</u>			<u>45</u>	<u>60</u>
P17		<u>48</u>	<u>53</u>			<u>48</u>	<u>61</u>
P18		<u>51</u>	<u>55</u>			<u>51</u>	<u>62</u>
P19		<u>54</u>	<u>57</u>			<u>54</u>	<u>63</u>
P20		<u>57</u>	<u>58</u>				
		<u>60</u>	<u>59</u>				

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TKT # 14894

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Company Reach Petroleum Corporation Lease & Well No. Wright #1
Elevation - Formation Viola Effective Pay - Ft. Ticket No. 14895
Date 6/29/81 Sec. 33 Twp. 29S Range 13W County Pratt State Kansas
Test Approved by Vernon C Schrag Western Representative Les Holtz
Formation Test No. 3 Interval Tested from 4515 ft. to 4545 ft. Total Depth 4545 ft.
Packer Depth 4510 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Packer Depth 4515 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4538 ft. Recorder Number 1051 Cap. 4250
Bottom Recorder Depth (Outside) 4541 ft. Recorder Number 13267 Cap. 4050
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Reach Drilling Co. Rig #1 Drill Collar Length 250 I. D. 2.26 in.
Mud Type Starch Viscosity 44 Weight Pipe Length - I. D. - in.
Weight 9.8 Water Loss 15.2 cc. Drill Pipe Length 4243 I. D. 3.8 in.
Chlorides 65,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 in.
Jars: Make No Serial Number - Anchor Length 30 ft. Size 5 1/2 in.
Did Well Flow? No Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Blow: Strong throughout test. Gas to surface at end of initial flow period. See attached sheet for gas measurements.

Recovered 180 ft. of gassy oil cut mud - 20% gas; 5% oil; 3% water; 72% mud
Recovered 60 ft. of heavy gassy mud cut oil - 45% gas; 25% oil; 3% water; 27% mud
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks:

Read outside recorder

Time Set Packer(s) 6:15 ~~A.M.~~ P.M. Time Started Off Bottom 10:00 ~~A.M.~~ P.M. Maximum Temperature 125
Initial Hydrostatic Pressure 2419 P.S.I.
Initial Flow Period 25 Minutes (B) 71 P.S.I. to (C) 72 P.S.I.
Initial Closed In Period 60 Minutes (D) 1083 P.S.I.
Final Flow Period 45 Minutes (E) 55 P.S.I. to (F) 66 P.S.I.
Final Closed In Period 90 Minutes (G) 1101 P.S.I.
Final Hydrostatic Pressure 2388 P.S.I. (H)

GAS FLOW REPORT

Date 6/29/81 Ticket 14895 Company Reach Petroleum Corporation
 Well Name and No. Wright #1 Dst No. 3 Interval Tested 4515-4545
 County Pratt State Kansas Sec. 33 Twp. 29S Rg. 13W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
Gas to surface in 30 minutes just PRE FLOW at shut-in						
	30 Min	5 PSIG	1/4" Orifice			20,700 C.F.P.D.

SECOND FLOW

	10 Min	5 PSIG	1/4" Orifice			20,700 C.F.P.D.
	20 Min	4 PSIG	1/4" Orifice			18,500 C.F.P.D.
	30 Min	4 PSIG	1/4" Orifice			18,500 C.F.P.D.
	40 Min	4 PSIG	1/4" Orifice			18,500 C.F.P.D.
	45 Min	4 PSIG	1/4" Orifice			18,500 C.F.P.D.

GAS BOTTLE

Serial No. 622 Date Bottle Filled 6/29/81 Date to be Invoiced 6/29/81

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Reach Petroleum Corporation
 Authorized by Vernon C Schrag

WESTERN TESTING CO., INC.

Pressure Data

Date 6/29/81 Recorder No. 13267 Capacity 4050 Test Ticket No. 14895
 Location 4541 Ft. Clock No. - Elevation - Well Temperature 125 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2419	P.S.I.	6:15P	M
B First Initial Flow Pressure	71	P.S.I.	30	Mins. 25 Mins.
C First Final Flow Pressure	72	P.S.I.	60	Mins. 60 Mins.
D Initial Closed-in Pressure	1083	P.S.I.	45	Mins. 45 Mins.
E Second Initial Flow Pressure	55	P.S.I.	90	Mins. 90 Mins.
F Second Final Flow Pressure	66	P.S.I.		
G Final Closed-in Pressure	1101	P.S.I.		
H Final Hydrostatic Mud	2388	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>5</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>30</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>71</u>	<u>0</u>	<u>72</u>	<u>0</u>	<u>55</u>	<u>0</u>	<u>66</u>
P 2 <u>5</u>	<u>71</u>	<u>3</u>	<u>176</u>	<u>5</u>	<u>55</u>	<u>3</u>	<u>176</u>
P 3 <u>10</u>	<u>71</u>	<u>6</u>	<u>395</u>	<u>10</u>	<u>55</u>	<u>6</u>	<u>419</u>
P 4 <u>15</u>	<u>71</u>	<u>9</u>	<u>630</u>	<u>15</u>	<u>55</u>	<u>9</u>	<u>602</u>
P 5 <u>20</u>	<u>71</u>	<u>12</u>	<u>823</u>	<u>20</u>	<u>55</u>	<u>12</u>	<u>750</u>
P 6 <u>25</u>	<u>72</u>	<u>15</u>	<u>909</u>	<u>25</u>	<u>56</u>	<u>15</u>	<u>839</u>
P 7 _____		<u>18</u>	<u>959</u>	<u>30</u>	<u>59</u>	<u>18</u>	<u>896</u>
P 8 _____		<u>21</u>	<u>990</u>	<u>35</u>	<u>61</u>	<u>21</u>	<u>935</u>
P 9 _____		<u>24</u>	<u>1010</u>	<u>40</u>	<u>65</u>	<u>24</u>	<u>965</u>
P10 _____		<u>27</u>	<u>1022</u>	<u>45</u>	<u>66</u>	<u>27</u>	<u>988</u>
P11 _____		<u>30</u>	<u>1035</u>			<u>30</u>	<u>1006</u>
P12 _____		<u>33</u>	<u>1045</u>			<u>33</u>	<u>1022</u>
P13 _____		<u>36</u>	<u>1051</u>			<u>36</u>	<u>1035</u>
P14 _____		<u>39</u>	<u>1059</u>			<u>39</u>	<u>1043</u>
P15 _____		<u>42</u>	<u>1065</u>			<u>42</u>	<u>1053</u>
P16 _____		<u>45</u>	<u>1069</u>			<u>45</u>	<u>1059</u>
P17 _____		<u>48</u>	<u>1073</u>			<u>48</u>	<u>1065</u>
P18 _____		<u>51</u>	<u>1077</u>			<u>51</u>	<u>1069</u>
P19 _____		<u>54</u>	<u>1080</u>			<u>54</u>	<u>1073</u>
P20 _____		<u>57</u>	<u>1083</u>			<u>57</u>	<u>1077</u>
WTC - 4		<u>60</u>	<u>1083</u>			<u>60</u>	<u>1080</u>

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WESTERN TESTING CO., INC.

Pressure Data

Date 6/29/81 Recorder No. 13267 Capacity 4050 Test Ticket No. 14895
 Location 4541 Ft. Clock No. - Elevation - Well Temperature 125 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	2419 P.S.I.	6:15P	M
B First Initial Flow Pressure	71 P.S.I.	30 Mins.	25 Mins.
C First Final Flow Pressure	72 P.S.I.	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1083 P.S.I.	45 Mins.	45 Mins.
E Second Initial Flow Pressure	55 P.S.I.	90 Mins.	90 Mins.
F Second Final Flow Pressure	66 P.S.I.		
G Final Closed-in Pressure	1101 P.S.I.		
H Final Hydrostatic Mud	2388 P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 5 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 20 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 9 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

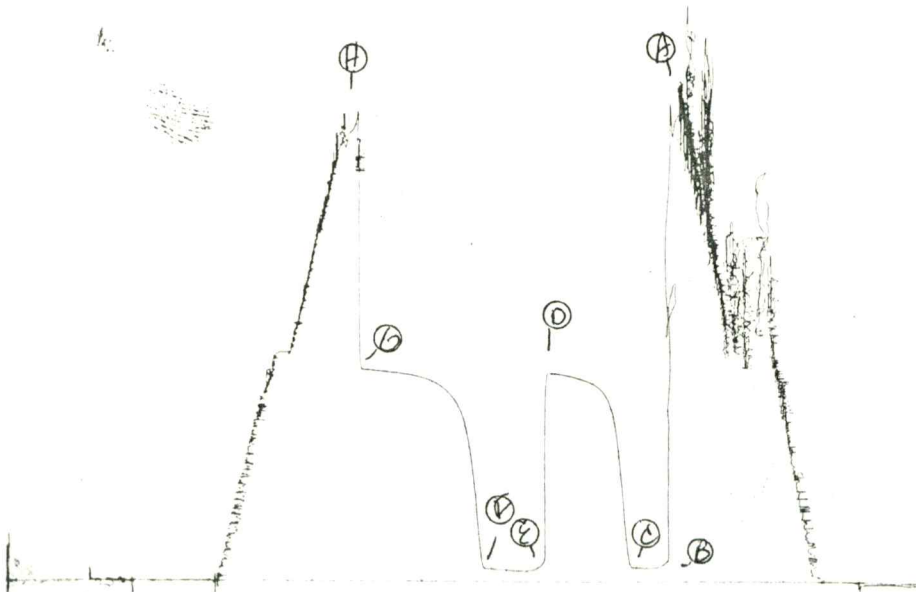
Final Shut-In
 Breakdown: 30 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	1082
P 2						66	1084
P 3						69	1086
P 4						72	1088
P 5						75	1091
P 6						78	1093
P 7						81	1095
P 8						84	1097
P 9						87	1099
P10						90	1101
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

13267.

TKT # 14895

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Company Reach Petroleum Corporation Lease & Well No. Wright #1
Elevation - Formation Simpson Effective Pay - Ft. Ticket No. 14896
Date 7/1/81 Sec. 33 Twp. 29S Range 13W County Pratt State Kansas
Test Approved by Vernon C Schrag Western Representative Les Holtz
Formation Test No. 4 Interval Tested from 4613 ft. to 4640 ft. Total Depth 4640 ft.
Packer Depth 4608 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Packer Depth 4613 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4633 ft. Recorder Number 1051 Cap. 4250
Bottom Recorder Depth (Outside) 4636 ft. Recorder Number 13267 Cap. 4050
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Reach Drilling Co. Rig #1 Drill Collar Length 250 I. D. 2.26 in.
Mud Type Starch Viscosity 41 Weight Pipe Length - I. D. - in.
Weight 9.4 Water Loss 16.0 cc. Drill Pipe Length 4341 I. D. 3.8 in.
Chlorides 40,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 in.
Jars: Make No Serial Number - Anchor Length 27 ft. Size 5 1/2 in.
Did Well Flow? No Reversed Out Yes Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Strong throughout test

Blow:

Recovered 180 ft. of heavy cut oil cut muddy water - 50% gas; 4% oil; 40% water; 6% mud

Recovered 2340 ft. of salt water Chlorides 287,000 PPM

Recovered - ft. of (the salt water was slightly gassy & oil specked)

Recovered - ft. of -

Recovered - ft. of -

Remarks:

Read outside recorder.

Time Set	Packer(s)	<u>6:45</u>	<u>A.M.</u>	Time Started	Off Bottom	<u>9:00</u>	<u>A.M.</u>	Maximum Temperature	<u>-</u>
			<u>P.M.</u>				<u>P.M.</u>		
Initial Hydrostatic Pressure				(A)		<u>2480</u>		P.S.I.	
Initial Flow Period				Minutes	<u>40</u>	(B)	<u>273</u>	P.S.I. to (C)	<u>681</u> P.S.I.
Initial Closed In Period				Minutes	<u>60</u>	(D)	<u>888</u>	P.S.I.	
Final Flow Period				Minutes	<u>30</u>	(E)	<u>766</u>	P.S.I. to (F)	<u>815</u> P.S.I.
Final Closed In Period				Minutes	<u>63</u>	(G)	<u>887</u>	P.S.I.	
Final Hydrostatic Pressure				(H)		<u>2439</u>		P.S.I.	

WESTERN TESTING CO., INC.

Pressure Data

Date 7/1/81 Recorder No. 13267 Capacity 4050 Test Ticket No. 14896 Location 4636 Ft. -
 Clock No. - Elevation - Well Temperature - °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2480	P.S.I.	6:45A	M
B First Initial Flow Pressure	273	P.S.I.	30	Mins. 40
C First Final Flow Pressure	681	P.S.I.	60	Mins. 60
D Initial Closed-in Pressure	888	P.S.I.	30	Mins. 30
E Second Initial Flow Pressure	766	P.S.I.	60	Mins. 63
F Second Final Flow Pressure	815	P.S.I.		
G Final Closed-in Pressure	887	P.S.I.		
H Final Hydrostatic Mud	2439	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>8</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>21</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	273	0	681	0	766	0	815
P 2 5	283	3	821	5	766	3	848
P 3 10	358	6	841	10	766	6	860
P 4 15	437	9	856	15	776	9	868
P 5 20	506	12	866	20	791	12	873
P 6 25	563	15	872	25	805	15	878
P 7 30	608	18	876	30	815	18	880
P 8 35	648	21	880			21	882
P 9 40	681	24	882			24	884
P10		27	884			27	886
P11		30	885			30	887
P12		33	885			33	887
P13		36	885			36	887
P14		39	885			39	887
P15		42	885			42	887
P16		45	885			45	887
P17		48	886			48	887
P18		51	886			51	887
P19		54	886			54	887
P20		57	887			57	887
WTC - 4		60	888			60	887
						63	887

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TKT # 14896
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