

Company Pickrell Drilling Company Lease & Well No. #5 Coykendall
Elevation 1464 Kelly Bushing Mississippi Effective Pay -- Ft. Ticket No. 15271
Date 10/25/82 Sec. 36 Twp. 29S Range 7W County Kingman State Kansas
Test Approved by Bill Klever Western Representative Jim Wondra

Formation Test No. 1 Interval Tested from 4108 ft. to 4127 ft. Total Depth 4127 ft.

Packer Depth 4103 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 4108 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4116 ft. Recorder Number 13547 Cap. 4225

Bottom Recorder Depth (Outside) 4119 ft. Recorder Number 13552 Cap. 4050

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

Drilling Contractor Pickrell Drilling Rig #10 Drill Collar Length 240 I. D. 2 1/4 in.

Mud Type cellex Viscosity 42 Weight Pipe Length - I. D. - in.

Weight 9.4 Water Loss NC cc. Drill Pipe Length 3847 I. D. 3.8 in.

Chlorides 10,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.

Jars: Make - Serial Number - Anchor Length 19 ft. Size 5 1/2 OD 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 FH in.

Blow: Weak blow died in fifteen minutes on initial flow period.

No blow on final flow period.

MISRUN

Recovered 5 ft. of drilling mud

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks:

Flushed tool on final flow period.

MISRUN

Time Set Packer(s) 1:30 A.M. Time Started Off Bottom 4:30 A.M. Maximum Temperature 119°

Initial Hydrostatic Pressure 2147 (A) - P.S.I.

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

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

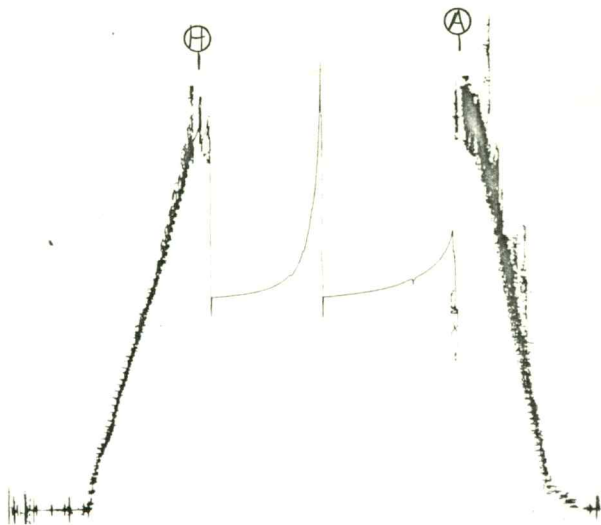
Final Flow Period - Minutes (E) - P.S.I. to (F) - P.S.I.

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

Final Hydrostatic Pressure 2036 (H) - P.S.I.

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TKT # 15271

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Company Pickrell Drilling Company Lease & Well No. #5 Coykendall

Elevation 1464 Kelly Bushing Formation Mississippi Effective Pay --- Ft. Ticket No. 15272

Date 10/ 25 /82 Sec. 36 Twp. 29S Range 7W County Kingman State Kansas

Test Approved by Bill Kleve Western Representative Jim Wondra

Formation Test No. 2 Interval Tested from 4110 ft. to 4132 ft. Total Depth 4132 ft.

Packer Depth 4105 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 4110 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4122 ft. Recorder Number 13547 Cap. 4225

Bottom Recorder Depth (Outside) 4125 ft. Recorder Number 13552 Cap. 4050

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

Drilling Contractor Pickrell Drilling Rig #10 Drill Collar Length 240 I. D. 2 1/4 in.

Mud Type cellex Viscosity 48 Weight Pipe Length - I. D. - in.

Weight 9.0 Water Loss 14.2 cc. Drill Pipe Length 3849 I. D. 3.8 in.

Chlorides 12,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.

Jars: Make - Serial Number - Anchor Length 22 ft. Size 5 1/2 OD in.

Did Well Flow? Yes 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 FH in.

Blow: Strong blow throughout both flow periods. Gas to surface in seven minutes on pre-flow.
See attached sheet for gas measurements.

Recovered 980 ft. of clean gassy oil (Gravity 34)

Recovered 180 ft. of foggy muddy oil

Recovered 240 ft. of muddy water

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 5:20 ~~A.M.~~ P.M. Time Started Off Bottom 9:25 ~~A.M.~~ P.M. Maximum Temperature 119°

Initial Hydrostatic Pressure 2055 P.S.I.

Initial Flow Period 35 Minutes (B) 171 P.S.I. to (C) 216 P.S.I.

Initial Closed In Period 60 Minutes (D) 1099 P.S.I.

Final Flow Period 60 Minutes (E) 225 P.S.I. to (F) 388 P.S.I.

Final Closed In Period 93 Minutes (G) 1094 P.S.I.

Final Hydrostatic Pressure 2030 P.S.I. (H)

GAS FLOW REPORT

Date 10/25/82 Ticket 15272 Company Pickrell Drilling Company
 Well Name and No. #5 Coykendall Dst No. 2 Interval Tested 4110'-4132'
 County Kingman State Kansas Sec. 36 Twp. 29S Rg. 7W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
Gas to surface in seven minutes. PRE FLOW					
10 min.	20" of water	1½" orifice			311,000 CFPD
20 min.	20" of water	1½" orifice			311,000 CFPD
30 min.	20" of water	1½" orifice			311,000 CFPD

SECOND FLOW					
5 min.	20" of water	1½" orifice			311,000 CFPD
10 min.	24" of water	1½" orifice			341,000 CFPD
20 min.	20" of water	1½" orifice			311,000 CFPD
30 min.	13" of water	1½" orifice			251,000 CFPD
40 min.	12" of water	1½" orifice			241,000 CFPD
50 min.	12" of water	1½" orifice			241,000 CFPD
60 min.	12" of water	1½" orifice			241,000 CFPD

GAS BOTTLE

Serial No. ---- Date Bottle Filled ---- Date to be Invoiced 10/25/82

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 1½% per month, equal to 18% 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 Pickrell Drilling Company
 Authorized by Bill Klever

WESTERN TESTING CO., INC.

Pressure Data

Date 10/25/82 Test Ticket No. 15272
 Recorder No. 13547 Capacity 4225 Location 4122 Ft.
 Clock No. -- Elevation 1464 Kelly Bushing Well Temperature 119 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2055 P.S.I.	Open Tool	5:20P	M
B First Initial Flow Pressure	171 P.S.I.	First Flow Pressure	30 Mins	35 Mins.
C First Final Flow Pressure	216 P.S.I.	Initial Closed-in Pressure	60 Mins	60 Mins.
D Initial Closed-in Pressure	1099 P.S.I.	Second Flow Pressure	65 Mins	60 Mins.
E Second Initial Flow Pressure	225 P.S.I.	Final Closed-in Pressure	90 Mins	93 Mins.
F Second Final Flow Pressure	388 P.S.I.			
G Final Closed-in Pressure	1094 P.S.I.			
H Final Hydrostatic Mud	2030 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>7</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>31</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>	171	0	216	0	225	0	388
P 2 <u>5</u>	171	3	947	5	225	3	797
P 3 <u>10</u>	172	6	1008	10	239	6	959
P 4 <u>15</u>	178	9	1034	15	256	9	999
P 5 <u>20</u>	188	12	1050	20	270	12	1021
P 6 <u>25</u>	198	15	1061	25	285	15	1035
P 7 <u>30</u>	211	18	1066	30	299	18	1045
P 8 <u>35</u>	216	21	1071	35	314	21	1053
P 9		24	1076	40	330	24	1059
P10		27	1081	45	343	27	1063
P11		30	1086	50	358	30	1067
P12		33	1088	55	373	33	1070
P13		36	1090	60	388	36	1073
P14		39	1092			39	1076
P15		42	1094			42	1078
P16		45	1095			45	1080
P17		48	1096			48	1082
P18		51	1097			51	1083
P19		54	1098			54	1084
P20		57	1099			57	1085
		60	1099			60	1086

WESTERN TESTING CO., INC.

Pressure Data

Date 10/25/82 Test Ticket No. 15272
 Recorder No. 13547 Capacity 4225 Location 4122 Ft.
 Clock No. -- Elevation 1464 Kelly Bushing Well Temperature 119 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2055 P.S.I.	Open Tool	5:20P	M
B First Initial Flow Pressure	171 P.S.I.	First Flow Pressure	30 Mins	35 Mins.
C First Final Flow Pressure	216 P.S.I.	Initial Closed-in Pressure	60 Mins	60 Mins.
D Initial Closed-in Pressure	1099 P.S.I.	Second Flow Pressure	65 Mins	60 Mins.
E Second Initial Flow Pressure	225 P.S.I.	Final Closed-in Pressure	90 Mins	93 Mins.
F Second Final Flow Pressure	388 P.S.I.			
G Final Closed-in Pressure	1094 P.S.I.			
H Final Hydrostatic Mud	2030 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 7 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.

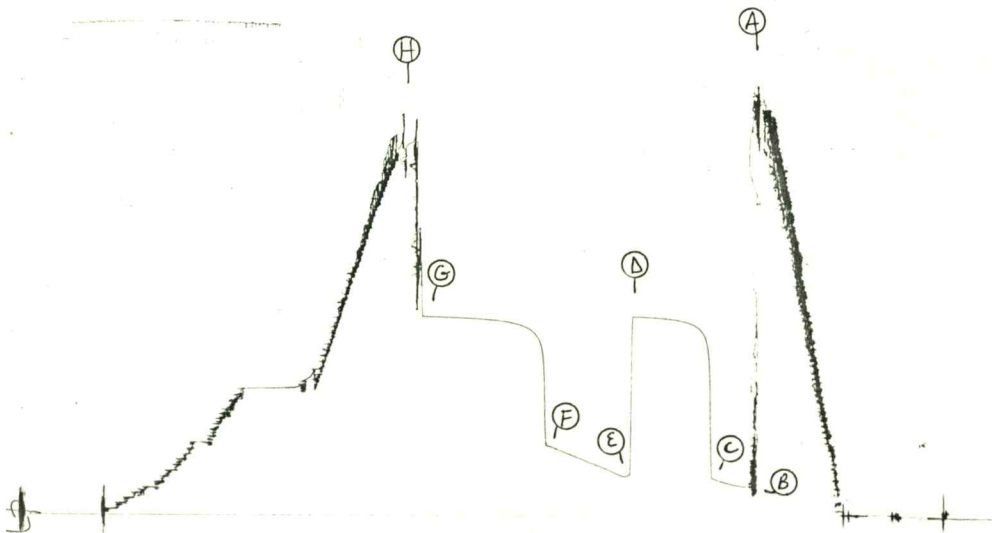
Second Flow Pressure
 Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 31 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	1087
P 2						66	1088
P 3						69	1089
P 4						72	1090
P 5						75	1091
P 6						78	1092
P 7						81	1093
P 8						84	1094
P 9						87	1094
P10						90	1094
P11						93	1094
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 15272

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Company Pickrell Drilling Company Lease & Well No. #5 Coykendall
 Elevation 1464 Kelly Bushing Formation Mississippi Effective Pay --- Ft. Ticket No. 15273
 Date 10/ 26 /82 Sec. 36 Twp. 29S Range 7W County Kingman State Kansas
 Test Approved by Bill Kleve Western Representative Jim Wondra
 Formation Test No. 3 Interval Tested from 4134 ft. to 4152 ft. Total Depth 4152 ft.
 Packer Depth 4129 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 4134 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4141 ft. Recorder Number 13547 Cap. 4225
 Bottom Recorder Depth (Outside) 4144 ft. Recorder Number 13552 Cap. 4050
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Pickrell Drilling Rig #10 Drill Collar Length 240 I. D. 2 1/4 in.
 Mud Type cellex Viscosity 44 Weight Pipe Length - I. D. - in.
 Weight 9.2 Water Loss 14.2 cc. Drill Pipe Length 3872 I. D. 3.8 in.
 Chlorides 12,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 18 ft. Size 5 1/2 OD in.
 Did Well Flow? Yes 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 FH in.

Blow: Strong blow throughout flow periods. Gas to surface in eleven minutes on pre-flow. See attached sheet for gas measurements.

Recovered 390 ft. of clean gassy oil (34 gravity)
 Recovered 300 ft. of foggy heavy oil cut mud
 Recovered 60 ft. of muddy water Chlorides 15,000 ppm
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 2:25 A.M. Time Started Off Bottom 6:55 A.M. Maximum Temperature 119°
 Initial Hydrostatic Pressure 2028 P.S.I.
 Initial Flow Period 30 Minutes (B) 76 P.S.I. to (C) 116 P.S.I.
 Initial Closed In Period 60 Minutes (D) 1099 P.S.I.
 Final Flow Period 90 Minutes (E) 133 P.S.I. to (F) 272 P.S.I.
 Final Closed In Period 90 Minutes (G) 1098 P.S.I.
 Final Hydrostatic Pressure 2028 P.S.I. (H)

GAS FLOW REPORT

Date 10/26/82 Ticket 15273 Company Pickrell Drilling Company
 Well Name and No. #5 Coykendall Dst No. 3 Interval Tested 4134' - 4152'
 County Kingman State Kansas Sec. 36 Twp. 29S Rg. 7W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
Gas to surface in eleven minutes. PRE FLOW					
15 min.	15" of water	3/4" orifice			55,200 CFPD
20 min.	15" of water	3/4" orifice			55,200 CFPD
30 min.	14" of water	3/4" orifice			53,300 CFPD

SECOND FLOW					
5 min.	20" of water	3/4" orifice			63,500 CFPD
10 min.	17" of water	3/4" orifice			58,500 CFPD
20 min.	14" of water	3/4" orifice			53,300 CFPD
30 min.	10" of water	3/4" orifice			44,800 CFPD
40 min.	10" of water	3/4" orifice			44,800 CFPD
50 min.	9" of water	3/4" orifice			42,500 CFPD
60 min.	9" of water	3/4" orifice			42,500 CFPD
70 min.	9" of water	3/4" orifice			42,500 CFPD
80 min.	8" of water	3/4" orifice			40,000 CFPD
90 min.	8" of water	3/4" orifice			40,000 CFPD

GAS BOTTLE

Serial No. ---- Date Bottle Filled --- Date to be Invoiced 10/26/82

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 1/2% per month, equal to 18% 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 Pickrell Drilling Company
 Authorized by Bill Klever

WESTERN TESTING CO., INC.

Pressure Data

Date 10/26/82 Test Ticket No. 15273
 Recorder No. 13547 Capacity 4225 Location 4141 Ft.
 Clock No. ---- Elevation 1464 Kelly Bushing Well Temperature 119 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2028 P.S.I.	Open Tool	2:25P	M
B First Initial Flow Pressure	76 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	116 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1099 P.S.I.	Second Flow Pressure	90 Mins.	90 Mins.
E Second Initial Flow Pressure	133 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	272 P.S.I.			
G Final Closed-in Pressure	1098 P.S.I.			
H Final Hydrostatic Mud	2028 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>18</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>	76	0	116	0	133	0	272
P 2 <u>5</u>	76	3	846	5	133	3	912
P 3 <u>10</u>	82	6	994	10	144	6	991
P 4 <u>15</u>	93	9	1032	15	157	9	1023
P 5 <u>20</u>	100	12	1050	20	167	12	1040
P 6 <u>25</u>	107	15	1062	25	175	15	1052
P 7 <u>30</u>	116	18	1067	30	184	18	1057
P 8		21	1072	35	193	21	1062
P 9		24	1077	40	200	24	1067
P10		27	1082	45	210	27	1072
P11		30	1087	50	217	30	1077
P12		33	1089	55	226	33	1079
P13		36	1091	60	235	36	1081
P14		39	1093	65	241	39	1083
P15		42	1094	70	248	42	1085
P16		45	1095	75	254	45	1087
P17		48	1096	80	262	48	1088
P18		51	1097	85	269	51	1089
P19		54	1098	90	272	54	1090
P20		57	1099			57	1091
		60	1099			60	1092

WESTERN TESTING CO., INC.

Pressure Data

Date 10/26/82 Test Ticket No. 15273
 Recorder No. 13547 Capacity 4225 Location 4141 Ft.
 Clock No. ---- Elevation 1464 Kelly Bushing Well Temperature 119 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2028	P.S.I.	2:25P	M
B First Initial Flow Pressure	76	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	116	P.S.I.	60	Mins. 60 Mins.
D Initial Closed-in Pressure	1099	P.S.I.	90	Mins. 90 Mins.
E Second Initial Flow Pressure	133	P.S.I.	90	Mins. 90 Mins.
F Second Final Flow Pressure	272	P.S.I.		
G Final Closed-in Pressure	1098	P.S.I.		
H Final Hydrostatic Mud	2028	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>18</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						63	1093
P 2						66	1094
P 3						69	1095
P 4						72	1096
P 5						75	1097
P 6						78	1098
P 7						81	1098
P 8						84	1098
P 9						87	1098
P10						90	1098
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT #15273

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