



WESTERN TESTING CO., INC.  
FORMATION TESTING

TICKET No 20173

P. O. BOX 1599 PHONE (316) 262-5861  
WICHITA, KANSAS 67201

Elevation 1353 GL Formation Simpson Eff. Pay Ft.

District Augusta Date 8-31-93 Customer Order No.

COMPANY NAME OXY USA INC.

ADDRESS 110 S. MAIN #800 WICHITA, KS. 67201

LEASE AND WELL NO. Pierpoint "A" 121 COUNTY Butler STATE KS Sec. 33 Twp 25 Rge. 5

Mail Invoice To Co. Name #121 Address Same No. Copies Requested

Mail Charts To Address Pierpoint Same No. Copies Requested

Formation Test No. 1 Interval Tested From 2532 ft. to 2550 ft. Total Depth 2550 ft.

Packer Depth 2532 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth ft. Size in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 2542 ft. Recorder Number 13548 Cap. 4025

Bottom Recorder Depth (Outside) 2545 ft. Recorder Number 13521 Cap. 4375

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Allen Rig #2 Drill Collar Length 147 I. D. 2 1/4 in.

Mud Type Chemical Viscosity 40 Weight Pipe Length I. D. in.

Weight 9.2 Water Loss cc. Drill Pipe Length 2364 I. D. 3.8 in.

Chlorides P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number Anchor Length 18 ft. Size 5 1/2 in.

Did Well Flow? 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 x 4 in.

Blow:

Recovered ft. of

Chlorides P.P.M. Sample Jars used Remarks: DID NOT GET TO BOTTOM

15' of fill up.

Time On Location 4:45 A.M. P.M. Time Pick Up Tool 6:30 A.M. P.M. Time Off Location A.M. P.M.

Time Set Packer(s) 7:45 A.M. P.M. Time Started Off Bottom 8:00 A.M. P.M. Maximum Temperature

Initial Hydrostatic Pressure (A) 122 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 (H) 125 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Mandy G. Belcher  
Signature of Customer or his authorized representative

Western Representative Stuart Stover

Thanks!

FIELD INVOICE

Open Hole Test	\$	
Misrun	\$	400.00
Straddle Test	\$	
Jars	\$	225.00
Selective Zone	\$	
Safety Joint	\$	
Standby	\$	
Evaluation	\$	
Extra Packer	\$	
Circ. Sub.	\$	
Mileage	\$	
Fluid Sampler	\$	
Extra Charts	\$	
Insurance	\$	
Telecopier	\$	
TOTAL	\$	625.00

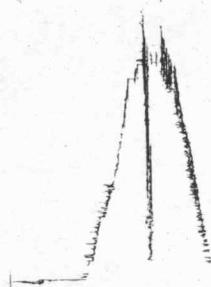
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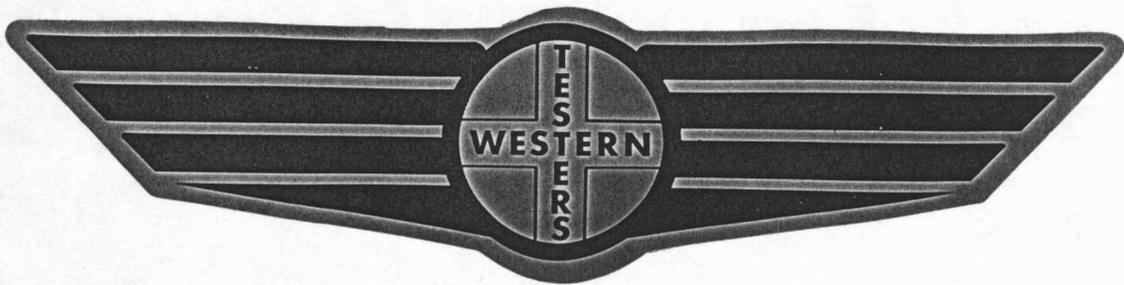


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# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 80 - 688 - 7021

DST REPORT

GENERAL INFORMATION

DATE : 8-31-93  
CUSTOMER : OXY USA INC.  
WELL : #121 TEST: 1  
ELEVATION: 1353 G.L.  
SECTION : 33  
RANGE : 5E COUNTY: BUTLER  
GAUGE SN#: 13548 RANGE : 4075  
TICKET : 21073  
LEASE : PIERPOINT A  
GEOLOGIST: MARVIN BELCHER  
FORMATION: SIMPSON  
TOWNSHIP : 25S  
STATE : KS  
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 2532.00 ft TO: 2550.00 ft TVD: 2550.0 ft  
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL  
DEPTH OF RECORDERS: 2542.0 ft 2545.0 ft  
TEMPERATURE: 95.0  
DRILL COLLAR LENGTH: 147.0 ft I.D.: 2.250 in  
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in  
DRILL PIPE LENGTH : 2364.0 ft I.D.: 3.800 in  
TEST TOOL LENGTH : 21.0 ft TOOL SIZE : 5.500 in  
ANCHOR LENGTH : 18.0 ft ANCHOR SIZE: 5.500 in  
SURFACE CHOKE SIZE : 0.750 in BOTTOM CHOKE SIZE: 0.750 in  
MAIN HOLE SIZE : 7.780 in TOOL JOINT SIZE : 4.5XH  
PACKER DEPTH: 2532.0 ft SIZE: 6.750 in  
PACKER DEPTH: 0.0 ft SIZE: 0.000 in  
PACKER DEPTH: 0.0 ft SIZE: 0.000 in  
PACKER DEPTH: 0.0 ft SIZE: 0.000 in

MUD INFORMATION

DRILLING CON. : ALLEN DRLG. #1  
MUD TYPE : CHEMICAL VISCOSITY : 40.00 cp  
WEIGHT : 9.200 ppg WATER LOSS: 0.000 cc  
CHLORIDES : 0 ppm  
JARS-MAKE : WTC SERIAL NUMBER: 460  
DID WELL FLOW?: NO REVERSED OUT?: NO

COMMENTS

Comment

MISRUN, DID NOT GET TO BOTTOM 15' OF FILL UP

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	%	%	%	%	Comments
Oil	Gas	Water	Mud		
No Data Entered					

RATE INFORMATION

OIL VOLUME:	0.0000	STB			
GAS VOLUME:	0.0000	SCF			
MUD VOLUME:	0.0000	STB			
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.0000	STB			
				TOTAL FLOW TIME:	No Events Created
				AVERAGE OIL RATE:	0.0000 STB/D
				AVERAGE WATER RATE:	0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 0.00

Description	Duration	p1	p End
INITIAL FLOW	0.00	0.00	0.00
INITIAL SHUT-IN	0.00		0.00
FINAL FLOW	0.00	0.00	0.00
FINAL SHUT-IN	0.00		0.00

FINAL HYDROSTATIC PRESSURE: 0.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1232.00

Description	Duration	p1	p End
INITIAL FLOW	0.00	0.00	0.00
INITIAL SHUT-IN	0.00		3.00

FINAL HYDROSTATIC PRESSURE: 1205.00



WESTERN TESTING CO., INC.  
FORMATION TESTING

TICKET No 20174

P. O. BOX 1599 PHONE (316) 262-5861  
WICHITA, KANSAS 67201

Elevation 1353 66 Formation Simpson Eff. Pay Ft.

District Augusta Date 8-31-93 Customer Order No.

COMPANY NAME Qxy USA INC

ADDRESS 110 S. main #800 Wichita KS 67201

LEASE AND WELL NO Pierpoint A #121 COUNTY Butler STATE KS Sec. 33 Twp. 25 Rge. 5

Mail Invoice To Co. Name Same Address No. Copies Requested

Mail Charts To Co. Name Same Address No. Copies Requested

Formation Test No. 2 Interval Tested From 2532 ft. to 2550 ft. Total Depth 2550 ft.

Packer Depth 2532 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth ft. Size in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 2542 ft. Recorder Number 13548 Cap. 4025

Bottom Recorder Depth (Outside) 2545 ft. Recorder Number 13521 Cap. 4325

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Allen Rig #1 Drill Collar Length 147 I. D. 2 1/4 in.

Mud Type Chemical Viscosity 50 Weight Pipe Length I. D. in.

Weight 9.3 Water Loss 7.2 cc. Drill Pipe Length 2364 I. D. 3.8 in.

Chlorides P.P.M. Test Tool Length ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 460 Anchor Length 18 ft. Size 5 1/2 in.

Did Well Flow? 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 x 4 in.

Blow: Good Blow off Btm of Bucket in 4 minutes  
2nd Flow - 3" Blow Building to 2" off Btm of Bucket

Recovered 390 ft. of Salt Water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides 17,000 P.P.M. Sample Jars used 1 Remarks:

Time On Location 11:00 A.M. Time Pick Up Tool 1:00 P.M. Time Off Location 6:30 P.M.

Time Set Packer(s) 1:40 A.M. Time Started Off Bottom 3:55 P.M. Maximum Temperature 95°

Initial Hydrostatic Pressure (A) 1233 P.S.I.

Initial Flow Period Minutes 15 (B) 121 P.S.I. to (C) 121 P.S.I.

Initial Closed In Period Minutes 30 (D) 182 P.S.I.

Final Flow Period Minutes 30 (E) 172 P.S.I. to (F) 172 P.S.I.

Final Closed In Period Minutes 60 (G) 202 P.S.I.

Final Hydrostatic Pressure (H) 1233 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Maura G. Belcher  
Signature of Customer or his authorized representative

Western Representative Stuart Stover

Thanks!

FIELD INVOICE

Table with 2 columns: Item, Amount. Includes Open Hole Test (\$600.00), Misrun (\$), Straddle Test (\$), Jars (\$225.00), Selective Zone (\$), Safety Joint (\$), Standby (\$), Evaluation (\$), Extra Packer (\$), Circ. Sub. (\$), Mileage (\$), Fluid Sampler (\$), Extra Charts (\$), Insurance (\$), Telecopier (\$), TOTAL (\$825.00).

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 8-21-92

Test Ticket No. 20124

Recorder No. 13548

Capacity \_\_\_\_\_ Location \_\_\_\_\_ Ft.

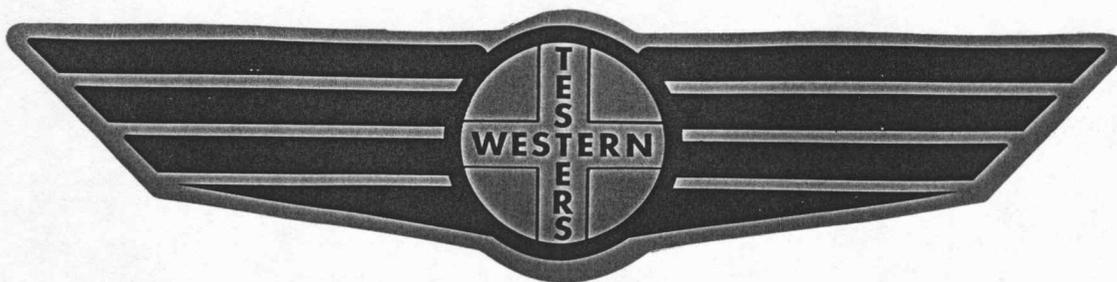
Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1240</u> P.S.I.	Open Tool		M _____
B First Initial Flow Pressure	<u>125</u> P.S.I.	First Flow Pressure	Mins. <u>5</u>	Mins. _____
C First Final Flow Pressure	<u>125</u> P.S.I.	Initial Closed-in Pressure	Mins. <u>5</u>	Mins. _____
D Initial Closed-in Pressure	<u>188</u> P.S.I.	Second Flow Pressure	Mins. <u>5</u>	Mins. _____
E Second Initial Flow Pressure	<u>177</u> P.S.I.	Final Closed-in Pressure	Mins. <u>60</u>	Mins. _____
F Second Final Flow Pressure	<u>177</u> P.S.I.			
G Final Closed-in Pressure	<u>198</u> P.S.I.			
H Final Hydrostatic Mud	<u>1235</u> P.S.I.			

**PRESSURE BREAKDOWN**

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ 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	<u>122</u>	0	<u>125</u>	0	<u>177</u>	0	<u>177</u>
P 2 5	<u>125</u>	3	<u>139</u>	5		3	<u>181</u>
P 3 10	<u>125</u>	6	<u>152</u>	10		6	<u>184</u>
P 4 15		9	<u>162</u>	15		9	<u>190</u>
P 5 20		12	<u>171</u>	20		12	<u>192</u>
P 6 25		15	<u>174</u>	25		15	<u>195</u>
P 7 30		18	<u>181</u>	30	<u>177</u>	18	<u>196</u>
P 8 35		21	<u>183</u>	35		21	<u>197</u>
P 9 40		24	<u>185</u>	40		24	<u>198</u>
P10 45		27	<u>187</u>	45		27	
P11 50		30	<u>188</u>	50		30	<u>198</u>
P12 55		33		55		33	
P13 60		36		60		36	
P14 65		39		65		39	
P15 70		42		70		42	
P16 75		45		75		45	<u>198</u>
P17 80		48		80		48	
P18 85		51		85		51	
P19 90		54		90		54	
P20 95		57		95		57	
100		60		100		60	<u>198</u>

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 80 - 688 - 7021

COMPANY OXY USA, INC. LEASE & WELL NO. #121 PIERPOINT A SEC. 33 TWP. 25S RGE. 5E TEST NO. 2 DATE 8/31/93

DST REPORT

GENERAL INFORMATION

DATE : 8-31-93  
CUSTOMER : OXY USA INC.  
WELL : #121 TEST: 2  
ELEVATION: 1353 G.L.  
SECTION : 33  
RANGE : 5E COUNTY: BUTLER  
GAUGE SN#: 13548 RANGE : 4075  
TICKET : 20174  
LEASE : PIERPOINT A  
GEOLOGIST: MARVIN BELCHER  
FORMATION: SIMPSON  
TOWNSHIP : 25S  
STATE : KS  
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 2532.00 ft TO: 2550.00 ft TVD: 2550.0 ft  
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL  
DEPTH OF RECORDERS: 2542.0 ft 2545.0 ft  
TEMPERATURE: 95.0  
DRILL COLLAR LENGTH: 147.0 ft I.D.: 2.250 in  
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in  
DRILL PIPE LENGTH : 2364.0 ft I.D.: 3.800 in  
TEST TOOL LENGTH : 21.0 ft TOOL SIZE : 5.500 in  
ANCHOR LENGTH : 18.0 ft ANCHOR SIZE: 5.500 in  
SURFACE CHOKE SIZE : 0.750 in BOTTOM CHOKE SIZE: 0.750 in  
MAIN HOLE SIZE : 7.780 in TOOL JOINT SIZE : 4.5XH  
PACKER DEPTH: 2532.0 ft SIZE: 6.750 in  
PACKER DEPTH: 0.0 ft SIZE: 0.000 in  
PACKER DEPTH: 0.0 ft SIZE: 0.000 in  
PACKER DEPTH: 0.0 ft SIZE: 0.000 in

MUD INFORMATION

DRILLING CON. : ALLEN DRLG. #1  
MUD TYPE : CHEMICAL VISCOSITY : 50.00 cp  
WEIGHT : 9.300 ppg WATER LOSS: 7.200 cc  
CHLORIDES : 0 ppm  
JARS-MAKE : WTC SERIAL NUMBER: 460  
DID WELL FLOW?: NO REVERSED OUT?: NO

COMMENTS

Comment

GOOD BLOW OFF BOTTOM OF BUCKET IN 4 MINUTES ON  
INITIAL FLOW PERIOD. 3" DECREASING TO 2" BLOW OFF  
BOTTOM OF BUCKET ON FINAL FLOW PERIOD.

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment \_\_\_\_\_

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
390.0	0.0	0.0	100.0	0.0	SALT WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 17000 PPM

RATE INFORMATION

OIL VOLUME:	0.0000	STB		
GAS VOLUME:	0.0000	SCF		
MUD VOLUME:	0.0000	STB		
WATER VOLUME:	4.1313	STB		
TOTAL FLUID :	4.1313	STB		
			TOTAL FLOW TIME:	40.0000 min.
			AVERAGE OIL RATE:	0.0000 STB/D
			AVERAGE WATER RATE:	148.7259 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1233.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	121.00	121.00
INITIAL SHUT-IN	30.00		182.00
FINAL FLOW	30.00	172.00	172.00
FINAL SHUT-IN	60.00		202.00

FINAL HYDROSTATIC PRESSURE: 1233.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1240.00

<u>Description</u>	<u>Duration</u>	<u>p1</u>	<u>p End</u>
INITIAL FLOW	10.00	123.00	123.00
INITIAL SHUT-IN	30.00		188.00
FINAL FLOW	30.00	177.00	177.00
FINAL SHUT-IN	60.00		198.00

FINAL HYDROSTATIC PRESSURE: 1235.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 8-31-93	TICKET : 20174
CUSTOMER : OXY USA INC.	LEASE : PIERPOINT A
WELL : #121	TEST: 2
ELEVATION: 1353 G.L.	GEOLOGIST: MARVIN BELCHER
SECTION : 33	FORMATION: SIMPSON
RANGE : 5E	TOWNSHIP : 25S
COUNTY: BUTLER	STATE : KS
GAUGE SN#: 13548	RANGE : 4075
	CLOCK : 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	123.00	123.00
5.00	123.00	0.00
10.00	123.00	0.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	139.00	139.00	0.00
6.00	152.00	13.00	0.00
9.00	162.00	10.00	0.00
12.00	171.00	9.00	0.00
15.00	176.00	5.00	0.00
18.00	181.00	5.00	0.00
21.00	183.00	2.00	0.00
24.00	185.00	2.00	0.00
27.00	187.00	2.00	0.00
30.00	188.00	1.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	177.00	177.00
5.00	177.00	0.00
10.00	177.00	0.00
15.00	177.00	0.00
20.00	177.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

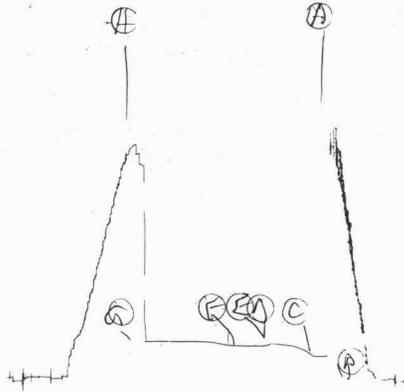
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
25.00	177.00	0.00
30.00	177.00	0.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	181.00	181.00	0.00
6.00	184.00	3.00	0.00
9.00	190.00	6.00	0.00
12.00	193.00	3.00	0.00
15.00	195.00	2.00	0.00
18.00	196.00	1.00	0.00
21.00	197.00	1.00	0.00
24.00	198.00	1.00	0.00
27.00	198.00	0.00	0.00
30.00	198.00	0.00	0.00
33.00	198.00	0.00	0.00
36.00	198.00	0.00	0.00
39.00	198.00	0.00	0.00
42.00	198.00	0.00	0.00
45.00	198.00	0.00	0.00
48.00	198.00	0.00	0.00
51.00	198.00	0.00	0.00
54.00	198.00	0.00	0.00
57.00	198.00	0.00	0.00
60.00	198.00	0.00	0.00

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